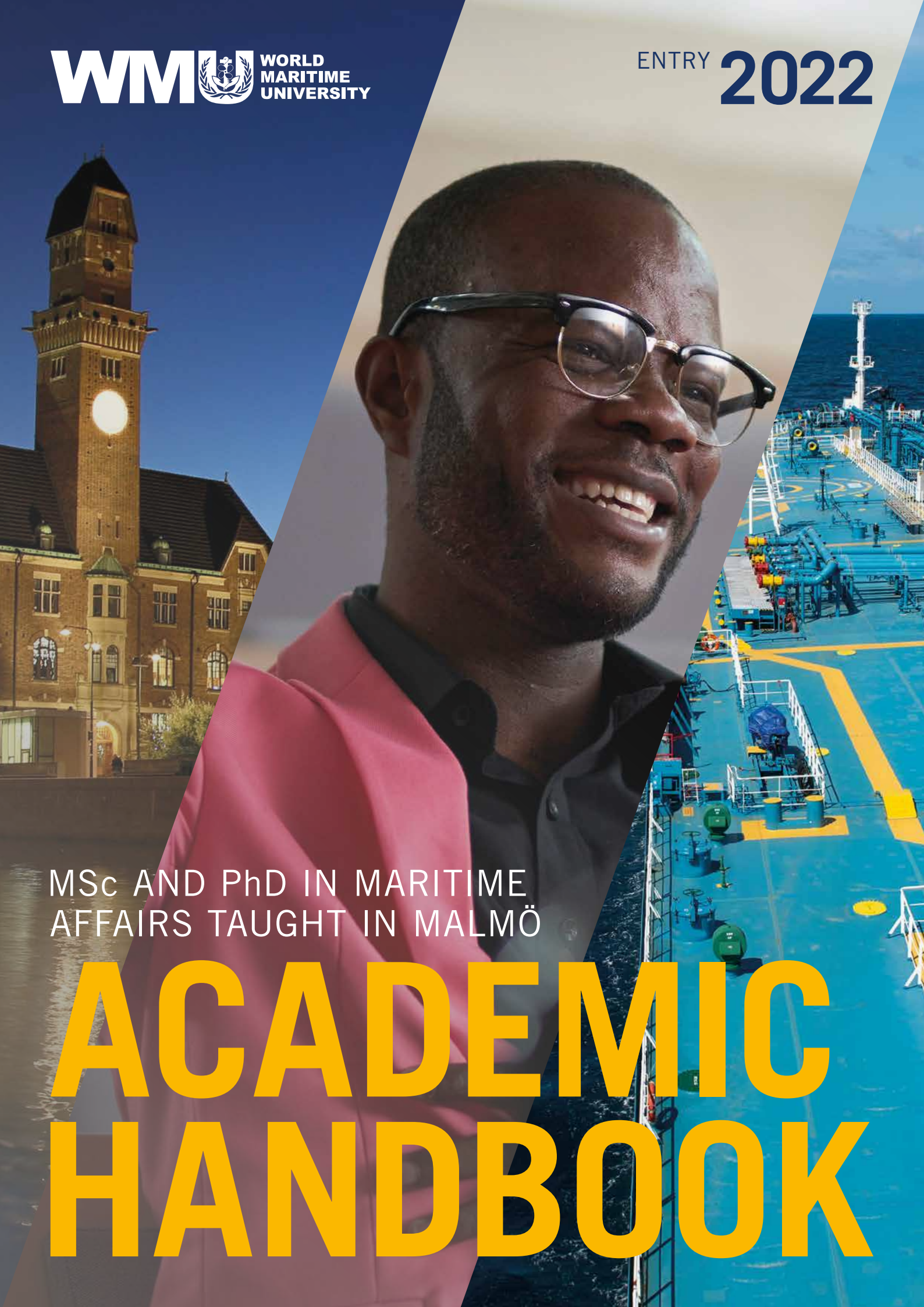
WORLD MARITIME UNIVERSITY

ENTRY 2022



MSc AND PhD IN MARITIME AFFAIRS TAUGHT IN MALMÖ

ACADEMIC HANDBOOK

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WMU'S MISSION IS TO BE THE WORLD CENTRE OF EXCELLENCE IN POSTGRADUATE MARITIME AND OCEANS EDUCATION, PROFESSIONAL TRAINING AND RESEARCH, WHILE BUILDING GLOBAL CAPACITY AND PROMOTING SUSTAINABLE DEVELOPMENT.

WMU's Vision is to inspire leadership and innovation for a sustainable maritime and oceans future.

The World Maritime University has adopted an equal opportunities policy and positively welcomes applications from women, who are currently under-represented in the field of maritime and ocean studies and employment.

The MSc in Maritime Affairs and the PhD in Maritime Affairs are accredited by ZEvA (Zentrale Evaluations- und Akkreditierungsagentur Hannover/ Central Evaluation and Accreditation Agency Hanover, Germany).

The Swedish Ministry of Education and Research, the public agency responsible for higher education in Sweden, has issued a formal statement that WMU is entitled to conduct activities in Sweden and confer degrees in Sweden under its Charter.

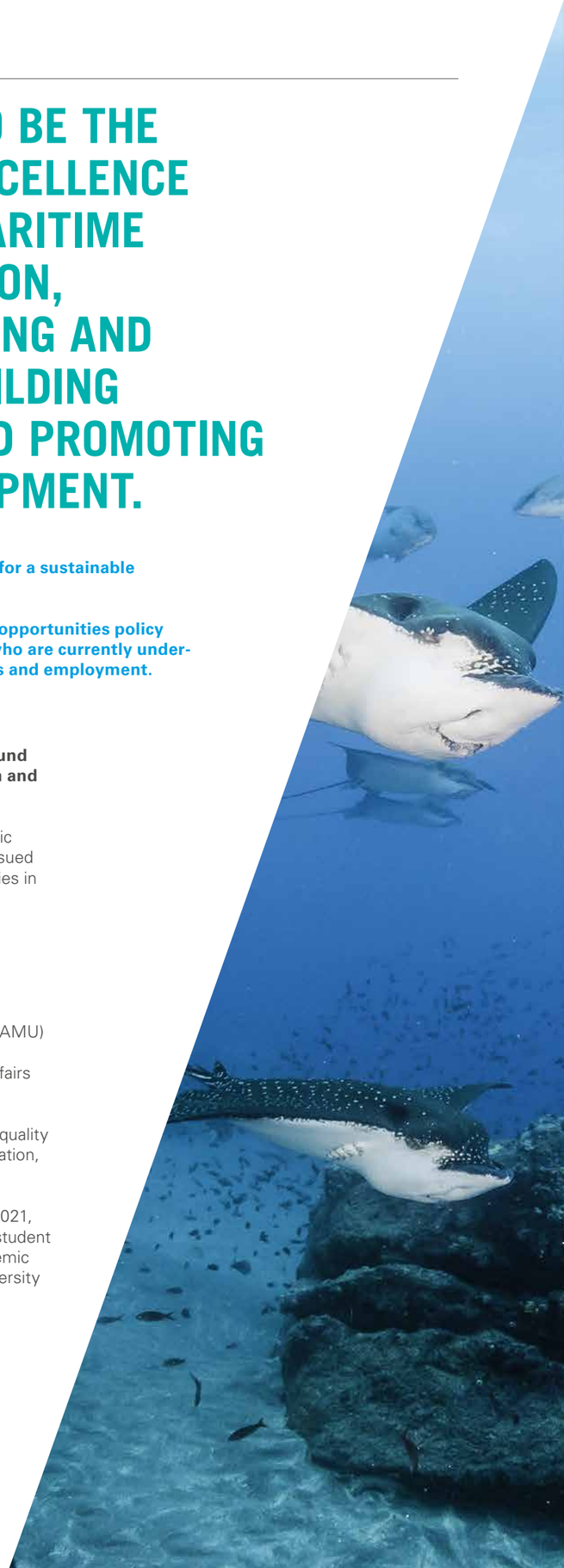
The World Maritime University is a member of:

- the European University Association (EUA)
- the International Association of Universities (IAU)
- the International Association of Maritime Universities (IAMU)

WMU is recognized by the US Department of Veterans' Affairs for study at both MSc and PhD level.

The World Maritime University is committed to a policy of quality in the management, control and delivery of its higher education, research and support systems.

The information in this publication is correct as at 31 July 2021, but developments may cause our study programmes and student amenities to change at any time without notice. The Academic Handbook forms no part of any contract between the University and any person.



WELCOME TO WMU

OUR STUDENTS WILL BECOME THE TORCHBEARERS OF THE NEXT GENERATION OF MARITIME, PORT AND OCEAN LEADERS AND EXPERTS

As the President of the World Maritime University (WMU), I am very pleased to introduce our postgraduate portfolio of studies.

The World Maritime University is a small, selective academic institution, dedicated to teaching, research and capacity-building in maritime and oceans affairs. Our graduates form an international network of expertise and have a remarkable impact on the maritime and ocean sectors. They are making a significant contribution to effective management, international cooperation and global sustainable development.

In the near future, solid and up-to-date maritime expertise will be needed for the rebuilding of the maritime and oceans world, following the destruction caused by the COVID-19 pandemic. It has affected all economic activities – but perhaps maritime transportation more than many others.

The pandemic has also accelerated changes in our behaviour and attitudes. It has shone a bright light on how interdependent the whole world is and how our futures are strongly inter-linked. We also know just how fragile our world is and how much we need to do to preserve and care for our oceans as well as the economic activities they support. We have also found new modalities to work better, work smarter and work faster. For each country, the ability to seize such opportunities and exploit them further depends entirely on having a very well-educated work force, right across the maritime and oceans fields, a workforce equipped with the latest knowledge and with an integrated, inter-disciplinary mind-set.

The students who will join WMU in 2022 will have an extraordinarily significant role after graduation - a role that has far-reaching impact. They will be the vanguard, the elite experts who will become the leaders of our new enterprises and initiatives. I am delighted every day to see the leadership roles that so many of our graduates occupy. These may well be a heavy burden at times to bear.

However, our graduates are well equipped to make a real and important difference in the world. Almost 5,400 graduates – including almost 1,200 women – now hold leading positions in their government, industry, academia, civil society and the media.

Since its establishment in 1983 by the International Maritime Organization (IMO), the University has grown in size and its impact has been phenomenal. We continue to develop our programmes to meet the needs of today's maritime industry. We will continue to build on our strengths based on our flagship MSc programme in Malmö. Our PhD programme is thriving, with new doctoral students from around the world registering each month. Our distance-learning programmes also offer opportunities to those who are not in a position to join our on-campus programmes.

It is part of our mission to ensure that we prepare you, who will be the torchbearers of the next generation of maritime, port and ocean leaders and experts, to be able to meet the challenges of today and be prepared for opportunities of tomorrow. It is essential that we all continue to work to achieve sustainable development and economic growth, in line with the United Nation' Sustainable Development Goals, even in the changed landscape that now makes up our world. The educational outcomes that WMU delivers enable the maritime and oceans industries to respond, adapt and adjust to the challenges of our times.

To the students who will join us in 2022, I extend a very warm welcome on behalf of my colleagues across the University. We sincerely believe that your stay with us will be both professionally and personally rewarding. The knowledge and skills you acquire will equip you to contribute to the development of your country, business and organizations. This will also improve cooperation across the global maritime and ocean industries among stakeholders. WMU offers you an incredible opportunity to join a great global community of maritime and oceans leaders. I look forward to welcoming you to join us!

Dr Cleopatra Doumbia-Henry, President

"WMU OFFERS YOU AN INCREDIBLE OPPORTUNITY TO JOIN A GREAT GLOBAL COMMUNITY OF MARITIME AND OCEANS LEADERS. I LOOK FORWARD TO WELCOMING YOU TO JOIN US."

WHAT IS WMU?

WMU IS A SMALL, SELECTIVE UNIVERSITY, OFFERING ONLY POSTGRADUATE QUALIFICATIONS TO TALENTED STUDENTS FROM AROUND THE WORLD. THE UNIVERSITY WAS FOUNDED IN 1983 BY THE INTERNATIONAL MARITIME ORGANIZATION (IMO), A SPECIALIZED AGENCY OF THE UNITED NATIONS, AS ITS PREMIER CENTRE OF EXCELLENCE FOR MARITIME AND OCEANS POSTGRADUATE EDUCATION, RESEARCH, AND CAPACITY BUILDING.

The University offers unique postgraduate educational programmes, undertakes wide-ranging research in maritime and ocean studies, and continues maritime capacity building in line with the UN Sustainable Development Goals.

WMU'S VISION

To inspire leadership and innovation for a sustainable maritime and oceans future.

WMU'S MISSION

WMU's mission is to be the world centre of excellence in postgraduate maritime and oceans education, professional training and research, while building global capacity and promoting sustainable development.

WMU'S STRATEGIC DIRECTIONS

For the period 2020 – 2023, the University is pursuing four strategic directions, designed to enable WMU to pursue its mission objectives in the years ahead:

1. **Educating and Fostering Maritime and Ocean Leaders**
2. **Enhancing Maritime and Ocean Research**
3. **Enhancing Strategic Collaboration and Partnerships**
4. **Strengthening Financial and Institutional Sustainability**

INTERNATIONAL CONFERENCES

WMU regularly organizes and hosts successful international conferences, often co-hosted with international organizations, such as IMO, UN Environment and the EU, and attracting eminent keynote speakers and panellists.

Students enrolled in the Malmö programmes are able to attend the conferences that take place in Malmö as part of their studies, extending their network of contacts and taking part in high-level discussions with very senior maritime practitioners.

Recent and planned international conferences and events have included:

- **WMU Global Ocean Conference, 2018**
- **Trends and Challenges in Maritime Energy Management Workshop, 2018**
- **OceansTrends 2018: Conservation and Sustainable Use of the Ocean**
- **Ocean Literacy Conference, 2018**
- **International Workshop on Boundaries Beyond National Jurisdiction, 2019**
- **Third WMU International Women's Conference: Empowering Women in the Maritime Community, 2019**
- **43rd Center for Oceans Law & Policy Conference, 2019**
- **Global MTCC Network (GMN) Seminar, 2019**
- **Second WMU Regional Conference for the Americas, Maritime Transport and Ocean Policies: Mexico, 2019**
- **Capacity-Building, Gender Empowerment and the BBNJ Agreement, 2019**
- **Anthropogenic Underwater Noise Symposium, 2019**
- **International Conference on Legal, Scientific and Economic Aspects of Deep Seabed Mining, 2019**
- **IMLA Joint Conference with ICERS, IMEC and INSLC, 2021**
- **The People We Need for the Ocean We Want – Launch of the Report 2021 for the Empowering Women for the United Nations Decade of Ocean Science for Sustainable Development Programme, 2021**
- **WMU Alumni Homecoming Conference, 2022**

OUR PROGRAMMES OF STUDY

One of the reasons for the establishment of the University was to increase the number of highly qualified specialist maritime personnel in all countries across the world, and in particular developing countries. With such specialists, international maritime Conventions can be implemented for the benefit of the whole global community. Maritime safety can be improved, the marine environment better protected, and international shipping and ports made more efficient. Specialists in developing countries can make sure that economic growth in the maritime and oceans fields is sustainable, with integrated planning for the oceans allowing each sector to develop in a mutually reinforcing manner.

Beyond these immediate practical aims, the University is a forum for people of many nationalities in both the student body and the faculty to participate in teaching and learning. Our goals are to foster tolerance, to encourage international co-operation, to help solve international maritime and oceans challenges, and to co-ordinate action internationally.

WMU educates people to accelerate their own professional achievements, and also for the benefit of their countries. Our students benefit from the postgraduate maritime education we offer. As WMU graduates, they are able to transfer their newly gained expertise to colleagues, helping their countries to achieve the highest practicable standards in maritime and oceans development.

The University is active across a broad spectrum of postgraduate programmes:

Master of Science in Maritime Affairs

Taught in Malmö with seven specializations: Maritime Education & Training; Maritime Energy Management; Maritime Law & Policy; Maritime Safety & Environmental Administration; Ocean Sustainability, Governance & Management; Port Management; and Shipping Management & Logistics. The programme educates future maritime and ocean leaders and strengthens the capacity of national administrations in developing countries. It serves the maritime and oceans industries and their value chains, building on IMO's global reach. It is responsive to the real needs of the maritime and oceans sectors, offering an expert balance of academic study and practical experience, and providing a unique insight into the whole range of maritime and ocean endeavour.

Master of Philosophy in International Maritime Law / Legislation and Ocean Policy

Designed in partnership by IMO's two sister institutions, WMU and the IMO International Maritime Law Institute (IMLI) in Malta, to play a part in ensuring the future sustainability of the world's oceans in accordance with the UN 2030 Agenda for Sustainable Development. The two-year programme is designed to train expert maritime lawyers, immersed in the UN system structure and goals, and had its first intake in 2017.

Doctor of Philosophy in Maritime Affairs

The PhD programme has active areas of research in both maritime and oceans fields, and a growing school of doctoral students. WMU has a strong tradition of interdisciplinary research at the doctoral level, and has won a large number of externally funded projects, often working in collaboration with partners from industry and government. The structure of the PhD programme makes it flexible and responsive to the needs of both full-time students based in Malmö and candidates based mainly at their employing organization.

Master of Science in Maritime Affairs taught in China

WMU offers two specializations within the MSc in Maritime Affairs taught in China: one in International Transport & Logistics, delivered in Shanghai, and the other in Maritime Safety & Environmental Management, taught in Dalian.

Distance Learning programmes

There are currently four Postgraduate Diploma programmes, one of which may lead on to an LLM degree, which vary in length from 12 to 16 months. These programmes are professionally oriented and provide academic knowledge that can be applied immediately in the participants' professional lives.

Executive & Professional Development Courses (EPDCs)

Providing mid-career professional updating on a wide range of topics, and delivered in Malmö, or at a location chosen by the client, the EPDCs offer participants the opportunity to meet the challenges of a fast-changing industry.

WMU'S CORE VALUES

WMU is committed to:

- **Academic Excellence: achieving the highest possible standards in teaching, learning and research**
- **Innovation: developing innovative and interdisciplinary approaches to all areas of activity**
- **A Caring Community: the creation of a diverse, caring and supportive environment, where every student and member of staff can reach their full potential**
- **Sustainable Development: providing the research and teaching to give communities around the world the knowledge and skills necessary for sustainable economic development and growth**
- **Gender Equality: working towards gender equality in every aspect of our activities in support of women in the maritime and oceans sectors around the world**
- **Leadership: leading global research on the sustainable use of the oceans, seas and marine resources for sustainable development**
- **A Global Network: enhancing its global network of maritime and oceans expertise, in support of the United Nations' and the International Maritime Organization's mission and goals**

WHY CHOOSE WMU?

STUDENTS WHO ENROL AT WMU ARE MAKING AN INFORMED CHOICE ABOUT THE PROGRAMME THAT WILL BEST ENHANCE THEIR CAREERS IN THE YEARS TO COME. THE UNIVERSITY HAS A LARGE NUMBER OF VERY EMINENT GRADUATES, INCLUDING:

- **Mr Kitack Lim, the Secretary-General of IMO (Class of 1991)**
- **Mr Moin Ahmed, Director General, International Mobile Satellite Organization (Class of 1992)**
- **Mr Binali Yildirim, former Prime Minister of Turkey (Class of 1991)**
- **H.E. Dwight C.R. Gardiner OBE, Ambassador Extraordinary and Plenipotentiary, Director/ Registrar General, Antigua and Barbuda Flag Administration (Class of 1990)**
- **Ms Emma Metieh Glassco, Director-General of the National Fisheries & Aquaculture Authority (NFAA), Liberia (Class of 2017)**
- **Commandant Sajid Hussain, Bangladesh Marine Academy, 2019 IMarEST Award (Class of 1998)**
- **Mr. Juvenal J.M. Shiundu, Chairman, Kenya National Shipping Line (Class of 1986)**
- **HE Dr Azfar Mohamad Mustafar, Ambassador of Malaysia to France (Class of 2001, PhD in 2011)**
- **Dr Safaa A. J. Al-Fayyadh, Director General, General Company for Ports of Iraq (Class of 2010, PhD in 2017)**
- **Ms Claudette Rogers, Director-General, Maritime Administration Department, Government of Guyana (Class of 2000)**
- **Dr Mohamed Briouig, Directeur de l'Institut Supérieur d'Etudes Maritimes, Morocco (Class of 1997)**
- **Mr Michael Luguje, Director General, Ghana Ports & Harbours Authority Class of 2004**
- **Mr Haji Salihin Aspar, Chief Executive of the Maritime and Port Authority of Brunei Darussalam (Class of 2002)**
- **Vice-Admiral George Ursabia Jr., Commandant of the Philippine Coast Guard (Class of 1999)**
- **Mr Charles Gono, Deputy Commissioner, Liberia Maritime Authority (Class of 1999)**
- **Mr António Duarte Monteiro, Executive Director of the Institute for the Prevention and Investigation of Aeronautical and Maritime Accidents, Cape Verde (Class of 2006)**
- **Rear Admiral Moses Beick-Baffour, Commandant of the Ghana Armed Forces Command and Staff College (Class of 2000)**
- **Professor Nalaka Jayakody, Vice-Chancellor and CEO of Northshore College of Business & Technology, Sri Lanka (Class of 2001)**
- **Mr Zhang Xiaojie, Director of TCD, IMO (Class of 1999)**
- **Ms Angelica Meza, Head of the International Ship Registry at Direccion General de la Marina Mercante, Honduras (Class of 2019)**
- **Mr Silvester M. Kututa, Chairman of the Kenya Ships Agents Association (Class of 2000)**
- **Commodore Joel Y Abutal, Superintendent of the Philippine Merchant Marine Academy (Class of 2000)**
- **Mr Yusuke Mori, Deputy Executive Director, International Association of Maritime Universities (Class of 2014)**
- **HE Ambasador Suat Hayri Aka, Permanent Representative of Turkey to the UN's International Civil Aviation Organization (Class of 1990)**

In addition, WMU graduates are now serving as the Directors-General of many countries' national maritime administrations and heads of the national Coast Guards. The Philippines, Trinidad and Tobago, Cambodia, Jamaica and Vietnam, for example, are among those governments where WMU's education has played a significant role in the development of their countries' maritime policy.

HERE ARE JUST A FEW COMMENTS FROM ALUMNI IN THE MOST RECENT GRADUATING CLASSES, THE CLASS OF 2020 AND OF 2021:

Aderonke Adekeye, Nigeria

"I have been able to employ the skills learnt on the program on multiple occasions already. After graduation, one really forgets the volume of knowledge available until such matters come up!"

MPhil in International Maritime Law and Ocean Policy

Sonia Ferreira, South Africa

"WMU is a unique institution offering world-class education, as well as providing a platform where exceptional networking takes place. It was a life-changing experience!"

MSc in Maritime Affairs, specializing in Ocean Sustainability, Governance & Management

Gerd Van De Merlen, Belgium

"The programme and interactions with the professors have made a real difference for me to progress significantly in this interesting domain. As an example, I was proposed and admitted as a member of a Marine Policy & Regulatory Affairs Committee to participate and advise on energy and emissions."

Postgraduate Diploma in Maritime Energy

Dr Bryan Buxton-Barnor, Ghana

"I was attracted to WMU because of the quality of its doctoral publications and the networking / job opportunities. The award of my degree offered me a faculty position in an international university and professional career opportunities in the UN Environment."

PhD in Maritime Affairs

Kristi Dwi Anita, Indonesia

"I have unforgettable memories with amazing worldwide friends, deeper knowledge in maritime with excellent professors, guest lectures and staff, as well as connections to the best maritime experts and leaders. Now I'm back at work, I can apply different approaches and broaden the scope of my work. WMU offers you 1001 doors of opportunity!"

MSc in Maritime Affairs, specializing in Maritime Law & Policy

Candice Gomez, Trinidad and Tobago

"WMU was my number one choice in my pursuit of more knowledge to untangle the complexities of the maritime industry. The curriculum content addressed the need for practical application and continuous research within the maritime sector. I am extremely proud to be a graduate of WMU and to be part of the WMU family."

MSc in Maritime Affairs, specializing in Shipping Management & Logistics

Paschalia Divari, Greece

"I chose to study at the World Maritime University, because not only is it a distinguished educational institution internationally, but it also gives you the chance to study the social and human issues related to maritime studies and that is unique. But WMU not only gave the academic knowledge I was seeking, but something more important: friends from all across the world."

MSc in Maritime Affairs, specializing in Maritime Education & Training

Daniel Sarzosa, Chile

"I chose to apply to WMU for its recognition and prestige worldwide. The different actors and main stakeholders of the maritime industry can share opinions and learn from each other at WMU. Additionally, students learn to understand the global logic for establishing public policies and increase our critical analysis to achieve safer and cleaner seas for the development and prosperity of humanity, aligned with the UN Sustainable Development Goals."

MSc in Maritime Affairs, specializing in Maritime Education & Training

Hashim Bala Ibrahim, Nigeria

"Since graduating six months ago, I have been promoted to a new rank, and drafted into a national committee on safety and security, so the knowledge I gained at WMU has had a huge impact already."

MSc in Maritime Affairs, specializing in Maritime Safety & Environmental Administration

Z. Zaini, Malaysia

"Being in the international maritime community, and led by maritime professionals at WMU have transformed the way I see things"

MSc in Maritime Affairs, specializing in Maritime Education & Training

MSc IN MARITIME AFFAIRS

WMU's MSc programme emphasizes the practical application of expertise. It offers both an overview of the complex, inter-related maritime and ocean fields, as well as the opportunity to specialize. The programme is designed to respond directly to the real needs of the maritime industry, and to equip graduates with the skills needed today and in the future. It is academically challenging and professionally oriented, and is designed for ambitious, mid-career maritime professionals. It provides a particularly strong foundation for those intending to move into either a national or an international career.

WMU is active in research that is influencing the development of the maritime and oceans industries. From the effects of climate change to maritime safety & security, from piracy to port state control, from environmental to technological developments impacting the industry, as well as on ocean-related matters, WMU's faculty are involved in research that also adds significant value to the content of the MSc programme, keeping it up to date and relevant.

MSc GRADUATES

The graduates are the maritime and ocean leaders of the future. Worldwide, WMU graduates are government ministers, heads of national maritime administrations and presidents of maritime universities. The University's Chancellor, the Secretary-General of IMO, is a WMU graduate.

The graduates take back to their home countries extensive maritime expertise, specifically in the areas of security, safety and environmental protection. They also have an appreciation of the latest technology, an understanding of the direction of future global developments, a broad network of essential contacts in the industry and constructive plans for the future.

MSc graduates are:

- equipped with the knowledge necessary to contribute to national and international capacity building and to fulfil their national and international responsibilities for effective maritime development
- possessed of expert leadership, problem-solving and critical analytical skills
- able to contribute to the sustainable development of the maritime and ocean industries
- knowledgeable about IMO governance, regulations, Conventions and policies as well as the Sustainable Development Goals of the United Nations
- competent in addressing the changing needs of the maritime industry and oceangovernance
- equipped with hands-on and contemporary knowledge acquired from both resident and visiting faculty
- able to operate and interact in an international and multi-cultural environment
- members of a maritime network that spans the globe and cuts across all areas of maritime activity
- able to communicate confidently in English in a professional context

As IMO's university, the World Maritime University is in a unique position to deliver a world-class, research-informed professional MSc programme. The quality of our graduates has been recognized in countries around the world, where WMU graduates hold very senior positions in government, companies, universities, international organizations and diplomatic missions. WMU aims to educate the maritime leaders of tomorrow, and has a track-record of success.

CAREERS AFTER GRADUATION

The WMU MSc programme provides an outstanding foundation for an exciting career in the maritime and oceans fields. Graduates whose studies were funded by their employer or an international donor are required to return home to spend a set period with their employer. Surveys have shown that 75% of WMU graduates are promoted to a significantly more senior position within a year or so of graduation, and many are promoted even more quickly.

Self-funded students are of course free to seek employment on the market-place. The University provides self-funded students with careers advice and may be able to offer internships.

All our graduates are extremely attractive to employers, as they offer a blend of interdisciplinary expertise, real-world experience and an unparalleled international network. A WMU degree offers you membership of a unique global elite of maritime and oceanexperts.

FIELD STUDY PROGRAMME

The students following the MSc in Maritime Affairs benefit from a unique field study programme hosted by organizations such as shipping companies, port authorities, maritime administrations, and a range of other governmental and non-governmental organizations, all over the world. These field studies link the students' theoretical knowledge to practical experience, so that they can gain valuable insights into professional practices around the world - insights that are unique to WMU's students. The field studies are part of the individual MSc specializations, and the programmes typically involve the following destinations:

Maritime Education & Training

Universities/institutions in Norway, Sweden, the Philippines, the Netherlands, Portugal (EMSA) and the UK (including IMO)

Maritime Energy Management

Italy, Sweden, the UK (including IMO), Finland, Denmark and Belgium

Maritime Law & Policy

The Netherlands (including the ICJ and the PCA in The Hague), Germany (including ITLOS in Hamburg), Chile (including DIRECTEMAR in Valparaiso), Denmark (including BIMCO in Bagsværd) and the UK (including IMO)

Maritime Safety & Environmental Administration

Malta, Republic of Korea, Germany, the UK (including IMO), China, Sweden and Denmark

Ocean Sustainability, Governance & Management

Sweden, Denmark, and the Netherlands

Port Management

Germany (Hamburg), the UK (including IMO), Singapore, Sweden (Gothenburg), and other major ports

Shipping Management & Logistics

Greece, the UK (London), Singapore, Denmark (Copenhagen) and other major shipping destinations

The co-operation of an enormous range of global institutions makes it possible for WMU students to experience the application of the latest theories, practices and technologies in real-life maritime situations, and to join a global network of maritime professionals.

In 2020-21, the field study programme was interrupted by the COVID-19 pandemic , but it is a priority of the University to offer the programme as soon as it I possible.

VISITING PROFESSORS

A further unique element of the WMU MSc in Maritime Affairs programme is the involvement of Visiting Professors. Each year, around one hundred internationally renowned senior maritime experts come to the University from a very diverse range of countries and institutions, including governments, multilateral organizations, universities, associations and companies. They are all internationally recognized experts, and play a key role in enabling WMU to deliver our comprehensive and wide-ranging programme.

WMU is the only maritime university in the world that offers its students direct access to such a network of senior people with real global impact.

ENGLISH AND STUDY SKILLS PROGRAMME

WMU offers a specialist Maritime English and Study Skills Programme (ESSP). The ESSP is designed to enhance English language competencies and provide the academic skills necessary to follow a postgraduate programme successfully, whether this programme is at WMU or elsewhere. Around one fifth of the ESSP students are external students, who come to Malmö for this unique programme that prepares them for both study and professional life in the maritime and ocean fields.

The ESSP runs each year from June to September, and its curriculum is designed to cover the skills required for success in a postgraduate degree programme and for professional success. The core components are Academic Writing Skills, Speaking & Presentation Skills and Thematic Integrated Skills, which targets all four language skills with a focus on contemporary maritime and oceans topics. The programme also includes academic lectures by WMU professors, and IT and library workshops.

The classes are small to facilitate group activities for collaborative, student-centred learning and allow a very high level of individual feedback to students from their teachers. The competencies that are developed include effective problem solving, solid research methods and academic writing, and critical reading and thinking skills, all skills that are needed in postgraduate study. For more information about the programme, please go to **wmu.se/essp**. Applications must be made online.

LIBRARY & RESEARCH SERVICES

Information resources and services at WMU are world class. In addition to its unique maritime and oceans print collection, the University provides access to more than a quarter of a million ebooks that are available on campus and off, as well as access to several specialized legal and maritime databases, such as *HeinOnline, Clarkson's Shipping Intelligence Network,* and of course, IMO Docs. Likewise, the library provides access to over 56 thousand full-text online periodicals, including *Lloyd's List*. The library collection is particularly strong in maritime law, law of the sea, shipping economics, maritime safety, marine environment, coastal management, port management, shipping management, and intermodal transportation.

Research services offered by the University include loan of material from other libraries around the world, an ability to request documents on demand electronically, and in-depth literature searches. Library staff members offer year-round classes in search strategies and reference management, in addition to on-demand courses determined by frequent student surveys.

WMU students and researchers are also granted access to other libraries in southern Sweden, in particular the Universities of Lund and Malmö, along with the city public library, Malmö Stadsbibliotek. As WMU has close ties with other maritime educational institutions and key organizations and commercial entities within the maritime sector, it is afforded access to cutting edge information on a routine basis. Such a provision further enables the library and IT infrastructure to deliver high quality, timely and on-target information meeting students' needs.

INFORMATION TECHNOLOGY

Information Technology skills are vital at WMU. Appropriate software for your studies and research is made available, from basic programmes to the latest simulation software. Students are provided with an integrated suite of communication and collaboration tools and have unlimited file storage in the WMU Cloud.

The University and our donors have invested heavily in providing students with an excellent IT infrastructure. All students have access to the University's wireless local area network, cutting edge computer labs, document scanners and high quality printers in the main building and at the residence.

In addition to providing a responsive help desk system for troubleshooting computer and networking problems, the IT staff offer classes and one-on-one sessions to ensure students get exposure to the best current IT practices as part of their capacity-building training.

THE STANDARD MSc PROGRAMME

The standard MSc programme is 14 months long, and divided into three terms:

Foundation Studies are taught in Term 1. They are completed by students following the standard MSc programme, and provide a thorough grounding in maritime policy and the IMO system for maritime governance, as well as an introduction to the environmental, economic, and managerial aspects of the ocean. Students also start the preparation for their dissertation in the research methodology subject.

Specialization Studies are taught in the second term. Students follow one of seven specializations: Maritime Education & Training; Maritime Energy Management; Maritime Law & Policy; Maritime Safety & Environmental Administration; Ocean Sustainability, Governance & Management; Port Management; or Shipping Management & Logistics. They also continue work on their dissertation preparation.

Dissertation: all students complete a dissertation, which may be based on a particular issue relating to their work in their home country or on a current or emerging maritime issue. The dissertation topic and proposal must be approved by the University, and may involve original research or be an analysis of a topic based on secondary sources. Students may complete the dissertation individually, in pairs or in trios.

THE ACCELERATED MSc PROGRAMME

Applicants who already have a relevant postgraduate qualification (a postgraduate diploma, a Master's degree, etc.) may apply for advanced standing on the basis of transferring credits from their previous studies; this exempts them from the need to complete the first, foundation term and allows the MSc degree to be completed in 10 months.

FLEXIBLE ENROLMENT

Every subject offered in the core MSc programme can also be followed by external participants, on a flexible, credit-by-credit basis. A fee of $300 per credit is charged, including assessment and/or examination; successful students are awarded a Certificate of Accomplishment, and a transcript of grades showing the subjects attended and assessed, which can be used to accumulate credits towards the full MSc degree or a Postgraduate Diploma. A student who elects only to audit a course, without any assessment, pays a reduced fee of $270 per credit, and is issued with a Certificate of Attendance.

Another mode of flexible enrolment is to study term-by-term, completing the three term programme over several years.

STUDENTS' PROGRESS AND AWARDS

Students' progress through the course is determined by his/her individual grades and cumulative grade-point average. Each grade awarded to a student is reviewed by the University's Curriculum and Assessment Committee, before it is issued to the student. The award for which a student may be eligible depends on the successful completion of a specified number of credits and the grades obtained.

Master of Science

Students who obtain a cumulative GPA of 2.67 or above, calculated over the 80 (or 60, for accelerated programme students) grade-bearing credits with no F grade, qualify for the award of the degree of Master of Science. Neither field studies nor the research methodology subject are grade-bearing; they are simply classified as pass/fail. The Academic Council may award the degree with distinction to the very best students.

Postgraduate Diploma

Students who obtain a cumulative GPA of 2.67 or above, calculated over 60 (or 40, for accelerated programme students) grade-bearing credits with no F grade, qualify for the award of Postgraduate Diploma. Students may choose to leave the University with a Postgraduate Diploma at any point when they have met this requirement.

THE CREDIT SYSTEM

The Malmö MSc programme is structured on the European Credit Transfer and Accumulation System (ECTS). ECTS is based on the principle that 60 credits measure the workload of a full-time student during one academic year, which is around 1600 hours per year. One credit therefore approximately equals 25 working hours. Student workload consists of all planned learning activities, such as attending lectures, field studies, seminars, independent and private study, preparation of projects, taking examinations, preparaing and giving presentations and researching and writing the dissertation. Credits in ECTS can only be obtained after successful completion of the work required and appropriate assessment of the learning outcomes. Learning outcomes are sets of competences, expressing what the student will know, understand or be able to do after completing a process of learning.

Credits are allocated to subjects and dissertation work, reflecting the amount of work required to achieve specific objectives. This weighting relates to the total quantity of work necessary to complete the programme successfully.

PROGRESSION

To remain in good academic standing, students must maintain a GPA of 2.67 or higher. A student whose GPA falls into the band of 1.67 to 2.66 may be allowed to continue on a probationary basis, but the enrolment of any student whose GPA falls below 1.66 may be terminated.

ENTRANCE REQUIREMENTS

14-MONTH STANDARD PROGRAMME

The University admits only mature students who are already established in a career in the maritime field. The Admissions Board will consider only those applicants who meet the minimum general entrance requirements, which are:

- a Bachelor's degree in a relevant discipline, or an equivalent university qualification

  or
- the highest grade certificate of competency for unrestricted service as master mariner or chief engineer, or equivalent maritime qualifications

  and
- substantial, directly relevant professional experience
- competence in English language, demonstrated by an internationally recognised standard test (see the full English language requirements below)
- computer competence (at least the ability to use Microsoft Office)

Good IT skills are essential, as students are required to use computers from the beginning of the first term to write their examination answers, complete assignments and carry out research and other projects. **Applicants who lack computer and keyboard skills cannot be accepted.**

From the group of applicants who meet these general entrance requirements, the Admissions Board will select only the best-qualified candidates, taking into account all their qualifications and achievements.

ACCELERATED 10-MONTH PROGRAMME

In addition to meeting the requirements for the standard, 14-month programme, applicants for advanced standing must demonstrate that they have already covered the content of the first term of the standard programme. The additional qualifications required are:

- a postgraduate qualification in an area directly relevant to the specialization which the student intends to follow
- senior level, directly relevant professional experience
- proficiency in English without attending the English and Study Skills Programme, and with a good score in the writing skills section of the test (see the full English language requirements below)
- excellent IT skills

Applicants to the accelerated programme must supply detailed transcripts from their undergraduate and postgraduate study. If transcripts are not issued, then the detailed syllabus, the marks gained, and a full academic reference must be supplied.

TYPICAL 14-MONTH PROGRAMME STRUCTURE

Term 1	
Foundation Studies	20 EC
Research Methodology	4 non-degree EC

Term 2	
Specializations	40 EC
Field Studies	4 non-degree EC

Term 3	
Dissertation	20 EC

Total	**88 EC**
Grade-bearing EC	80 EC
Non-degree, Non-grade-bearing EC	8 EC

ENGLISH LANGUAGE REQUIREMENTS

All applicants to the University must offer an internationally recognised English language proficiency test. Acceptable tests include IELTS, TOEFL, Cambridge examinations, and GCE/SCE O-levels in English language. Other tests may be accepted by the Admissions Board, especially during the pandemic; applicants should check with the Registry in such cases.

Candidates are assessed in accordance with the following general guidelines:

Test of English as a Foreign Language (TOEFL)

ESSP participation required if the scores are:
IBT 61 to 79
PBT 500 to 549

No ESSP required if the scores are:
IBT 80+
PBT 550+

WMU's TOEFL institution code is 9198.

International English Language Testing System (IELTS)

Bands 5.0 and 5.5: ESSP participation required
Band 6.0 or above: no ESSP required

Please note: the academic, not the general training, version of the test is required.

Cambridge Examinations

First Certificate (FCE): ESSP participation required
Advanced (CAE): no ESSP required
Proficiency (CPE): no ESSP required

Students who have a pass in a GCE O-level or the equivalent (WAEC, SSC, CXC etc.) must enclose a copy of their examination results certificate.

Sometimes applicants' test results meet the University's general guidelines, but show weaknesses in a certain skills area. In such cases, the Admissions Board will vary the guidelines shown above.

Information on the accepted tests can be found at the following websites:

www.toefl.org
www.ielts.org
www.cambridgeesol.org

APPLICATION FOR ADMISSION

All candidates should apply online from the WMU website (**www.wmu.se**) where all the necessary information can be found. Applications can be submitted at any time; there are no cut-off dates.

Certified copies of certificates (including the results of an acceptable test of English language) and transcripts supporting the qualifications listed must be attached as electronic files.

Paper applications are not accepted.

Applicants who meet the minimum entrance requirements are reviewed by the Admissions Board. Only the best candidates each year will be approved and offered a place, pending the confirmation of funding.

If an applicant requests advanced standing to enter the accelerated MSc programme, the transcripts will be carefully assessed to ensure that the essential criteria are met. An applicant who is considered for the accelerated programme, but not accepted, is automatically then considered for the 14-month standard programme.

The Registry will notify you of the result of your application as soon as possible. The process may take longer at certain times of the year.

When an academically cleared candidate has secured financing, enrolment can be finalised. At this point, the University will send each candidate a medical report form, which must be returned to the University, along with a formal declaration that the candidate accepts the conditions of his/her enrolment.

UNIVERSITY FEES

The University fee is made up of tuition, field study programme costs, study materials and the required medical and accident insurance. The University fees for entrants to the Class of 2023 are as follows, but may be revised by the Executive Board in the autumn of 2021:

Standard MSc programme	**$27,900**
Tuition	$23,500
Field study programme	$4,400
Accelerated MSc programme	**$24,800**
Tuition	$20,400
Field study programme	$4,400
English & Study Skills Programme	**$5,700**

The fees and costs are revised biannually, and so will be higher for students in the Class of 2024.

LIVING COSTS

A student needs at least SEK11,000 per month for rent at the University residence and basic general living costs, plus air tickets. To rent a flat privately is considerably more expensive. Since WMU is a UN institution and not part of the national Swedish education system, our students cannot claim study support from the Swedish government or any other EU state.

ALL-INCLUSIVE PAYMENT

Some sponsors prefer to make a single payment to the University to cover all the needs of their student during the programme. From this inclusive payment, WMU provides tuition, field studies, insurance, accommodation, and a monthly living allowance. Students on the standard, 14-month programme are also provided with an air ticket home after graduation. The all-inclusive fees are as follows:

Standard MSc programme	**$58,700**
Accelerated MSc programme	**$49,700**
English & Study Skills Programme	**$11,400**

FINANCIAL SUPPORT FROM COMPANIES, GOVERNMENTS AND FOUNDATIONS

Half our students are funded by their own companies, governments or national funding agencies. Sponsors can choose whether to make the all-inclusive payment, or to pay just the University fee to WMU, and then make payments directly to the student to cover living expenses. Payment must be made by bank transfer to the University's account before we can confirm enrolment. Details of how to do this can be found at the end of this Handbook.

Before applying for a fellowship from a WMU donor, you are strongly advised to explore all funding possibilities in your home country, such as from your own company or organization, national scholarship programmes for study abroad, international scholarship and fellowship programmes, maritime sector organizations and philanthropic foundations. Make sure you find out about the requirements for each of these options well in advance of the start of your programme. There is a list on our website of some of these organizations.

FINANCIAL SUPPORT FROM WMU DONORS

If you cannot secure funding in your home country, you can be considered for one of the fellowships granted via WMU by international donors. The majority of these fellowships cover the full costs of studying at the University: the University fee, accommodation at the residence, a monthly living allowance, and an air ticket home after graduation. Others cover only the University fee. There is very limited donor support for the ESSP.

The application for donor funding must be made by your employer, who completes the **Application for Financial Support form**, available on our website. To be considered for certain donor fellowships, applicants must complete additional **motivational statements**. The blank forms for each donor which is currently requesting such a statement can be found on our website. As at August 2021, these awards are the Sasakawa World Maritime University Fellowships, the Government of the Republic of Korea Fellowships, the ITF Seafarers' Trust Fellowships, and the TK Foundation Fellowships. Please note that only typed electronic forms can be accepted to apply for donor support, and should be submitted with your online application.

Your employer's commitment to your studies is vital; the donors expect your employer to buy your initial plane ticket to come to Sweden, and to employ you in a suitable position after graduation. The donors have established the criteria that they use when considering applicants: awards are usually restricted to government employees from the least developed countries who are aged under 40. Some donors give priority to certain regions, to certain specializations or to women. Detailed information about academic qualifications, including English language test scores, IT skills, professional track record and anticipated employment after graduation are taken into account by donors, along with your motivational statement.

If you hope to secure a donor fellowship, you must apply as early as possible to maximize your chances, and you are advised to submit all the motivational statements. Donors start to allocate fellowships very early each year, and the process goes on over a period of several months. We receive many more applications for these fellowships than the number of donor fellowships available, and you should not rely on WMU donors if there are other options in your home country; it is very important that you and your nominating authority make every effort to secure financing on your behalf.

MSc IN MARITIME AFFAIRS

PROGRAMME CONTENT

FOUNDATION STUDIES

Foundation Studies are taught in the first term, and cover the introductory knowledge that is fundamental to all activities in the maritime field.

WMU 151	**International Law, Maritime Conventions and International Organizations** To provide a foundation for the understanding of international law, the complex body of treaties, and major international maritime conventions (the four pillars). To provide an introduction to the various international institutions involved in shipping and maritime affairs, including UN agencies and inter-governmental and non-governmental organizations and their interrelationship.	**4 EC**
WMU 139	**The IMO System for Maritime Governance** To provide an introduction to the International Maritime Organization (IMO), including the development of standards and regulations leading to national implementation of IMO instruments, the transfer of knowledge and technology to developing maritime countries, and the theory of maritime policy and its implications on maritime safety and security, environmental protection, and ship efficiency.	**4 EC**
WMU 142	**Maritime Economics** To provide an economic explanation for four aspects of international maritime transport: the demand, the supply, the market and the strategy. To apply economic principles to the discussions of different aspects of maritime transport such as ship operation, finance, seafarers, safety, marine environment, port and other services. To analyse the impact of technology, especially digital technology including AI and automation, on the shipping sector.	**4 EC**
WMU 152	**Introduction to Ocean Science for Sustainable Development** To provide an evidence based, cross-disciplinary introduction to the ocean as a social-ecological system (past, present and future). To learn about ocean processes and life in the ocean and evaluate the benefits that the ocean provide to societies. To examine how human activities such as overfishing, marine pollution, and human-induced climate change disrupt the function of the ocean ecosystems, and the implications for the Earth and its inhabitants. To discuss potential societal interventions needed to restore the health of the ocean and advance the UN's Sustainable Development Goals.	**4 EC**
WMU 147	**Management and Organizational Behaviour** To provide an appreciation of the evolution of management thought. To provide a foundational level understanding of the principles of management and the skills to interrogate and apply organizational behaviour theories to interactions between individuals and groups within organizations. To identify and discuss contemporary issues and trends in management and organizational behaviour with applications in the maritime industry.	**4 EC**
WMU 149	**Research Methodology and Study Skills** To provide study skills training at the postgraduate level, including critical thinking, academic writing, referencing, examination preparation and oral presentation skills. To provide advanced training in research methods across various science disciplines in maritime affairs to equip students with a thorough knowledge of research design, literature review, data collection, ethical issues and quantitative/qualitative and legal analyses.	**4 non-degree EC**

SPECIALIZATION STUDIES

MARITIME EDUCATION & TRAINING

This specialization has been designed for people engaged in the leadership and administration of human development processes in the context of the maritime industry, as well as organizational management in both academic and non-academic settings. It provides the knowledge essential for the optimization of maritime education systems under international law, the creation, acquisition and transfer of knowledge across maritime knowledge clusters and the optimum leadership of contemporary organizations with emphasis on strategic planning and people management.

EDU 101 **The International Legal and Administrative Framework of Maritime Education & Training** **8 EC**

To provide a broad appreciation of the role of the IMO and national governments in policy formulation and the administration of maritime affairs. To define and examine "maritime administration" conceptually and in terms of maritime governance. To consider the evolution of international law in maritime education in particular within the ambit of the International Maritime Organization, and the human element issues that underpin educating for the maritime industry.

EDU 106 **Principles of Education and Curriculum Development** **8 EC**

To discuss the fundamental principles of education including theories of learning, cognition and motivation and their relevance to maritime education and training and for life-long learning. To discuss perspectives of sustainability in higher education considering the UN Sustainable Development Goals. To examine social dynamics in the maritime industry, including diversity and culture. To impart an understanding of the nature of curriculum and the influences on its development in particular for maritime education and training. To enhance the ability to develop curriculum documents for different purposes. To discuss the continuing evolution of technology and its impact on education, training, curriculum development and the maritime industry.

EDU 104 **Curriculum Delivery and Assessment** **8 EC**

To examine principles and practices of effective curriculum delivery including those relevant to the maritime context. To give an in-depth appreciation of how curriculum delivery can be optimized using contemporary digital tools including simulators, information and communication systems, learning management systems and e-learning. To discuss learner assessment and curriculum evaluation methods including the use of advanced statistical analysis.

EDU 105 **Knowledge Management** **8 EC**

To consider knowledge management and its importance to modern organizations and maritime clusters in improving operational efficiency. To understand the relevance of and need for socio-technical skills, and the use of modern technology and digitization in creating, acquiring and transferring knowledge. To discuss the role and influence of data and global access to information on society. To examine knowledge and knowledge repositories and their support, maintenance, development and use for organizational and industry growth. To examine how organizations learn and how this impacts growth, sustainability, social relevance and profitability.

LEA 101 **Strategic Management and Leadership** **8 EC**

To provide in-depth understanding of strategic management and discuss tools for optimum scenario and strategic planning. To explore management theories as they relate to people, the evolution of strategic management practices in this regard and their application including in the maritime industry. To examine approaches to leadership and the exercise of power and influence. To discuss contemporary global issues – in particular as they relate to the goals of the United Nations – and the place of change leadership, change management and education. To discuss the meaning and relevance of maritime governance and corporate social responsibility for sustainable and value-centred maritime operations.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

MARITIME ENERGY MANAGEMENT

This specialization is designed for the people who wish to make a contribution to sustainable energy and climate actions in the maritime and ocean sectors. Successful candidates are not limited to those having a technical profile (e.g. naval architects, ocean engineers, deck officers and marine engineers, designers, superintendents, surveyors, engineers with a maritime exposure etc.) but also management backgrounds, including maritime economists, ship operators, administrators, IT professionals, port and shipyard managers and professionals from the energy and environmental sectors. It provides a comprehensive understanding of different aspects of maritime energy management across the field from shipping to oceans, and from ports to shipyards with a vision of a sustainable, energy efficient and zero/ low carbon maritime industry, in particular decarbonised long-distance shipping.

EGY 114 **Energy for Sustainable Maritime Industry** **8 EC**

To apply system thinking in the maritime domain. To discuss the emergence and predominance of societies based on fossil fuels, and the problems associated with air emissions including air pollutants and greenhouse gas. To understand the international regulatory and institutional framework for air emissions. To understand the market structure, externalities and policy instruments and the analysis of relevant markets in relation to the extremity concept. To consider energy security for private and public entities, the science-policy interface and science-based decision-making. To discuss Sustainable Development Goals in maritime energy management, and the social and human aspects of maritime energy transition. To examine technological innovation and the impacts of the fourth industrial revolution including autonomous ships, internet of things, cyber-physical systems, and maritime digitalisation.

EGY 102 **Energy-Efficient Ship Design and Operation** **8 EC**

To understand MARPOL Annex VI including EEDI, SEEMP, MRV, DCS and technology transfer along with IMO's GHG strategy and its short-/ mid-term measures; to examine technological innovation related to energy management in the maritime industry; to explain the basic process of onboard power generation and describe principal energy consumers and converters; to identify energy-saving measures in both ship design and operation; to discuss ship design and energy efficiency through ship resistance (viscous, wave-making, air and appendage) reduction means, and propeller propulsion efficiency improvement technologies; to discuss ship operation and energy efficiency through operational measures both at ship and fleet levels along with the integration of port/ship duo; to analyse the impact of technical and operational measures on fuel consumption of ships; to discuss machinery technologies including hull and propeller maintenance along with relevant ISO standards.

EGY 108 **Energy Management in Maritime Onshore Facilities** **8 EC**

To discuss energy management in terms of its vision, planning and strategy in the context of ports/ shipyards; to analyse the role of port governance and port-cities in global networks as part of the supply chain; to provide an overview of the ISO 50001 energy management system certification process, ISO 14001 environmental management systems and other relevant certifications systems; to explain energy auditing through real applications from ports/shipyards; to discuss the socio-economic benefits of abatement technologies resulting from international, European and regional port emissions regulations; to discuss the port supply chain management, digital innovation, green and smart ports concept, including new challenges such as cybersecurity in ports and the maritime industry; to examine the green port charges and environmental incentive schemes; to apply the Circular Economy and industrial symbiosis approach within ports and cities.

EGY 112 **Alternative Fuels/Technologies and Marine Renewable Energy** **8 EC**

To understand existing and anticipated future pollutant emission limits, and to identify compliant technological options globally and within Emission Control Areas (ECAs); to examine technological innovations, with a particular focus on the mitigation of GHG and pollutant emissions from energy use; to evaluate potential future propulsion technologies including alternative fuels (LNG, LPG, ethane, methanol, ethanol, dimethyl ether, biofuels, synthetic renewable fuels and electro-fuels, hydrogen, and ammonia), fuel cell and battery-powered electric systems; to evaluate the potential for shipboard renewable energy capture including wind and solar-assisted propulsion and outboard power; to analyze ocean energy (wave, ocean and tidal currents and tidal range, ocean thermal energy conversion and salinity gradient), and offshore wind energy; to understand the environmental impacts of air pollution, underwater noise and marine renewable energy; to understand the concept of life-cycle impact of maritime energy technologies; to understand maritime spatial planning related to offshore renewable energy generation.

EGY 115 **Maritime Energy Management and Operational Research** **8 EC**

To describe operational research techniques such as forecasting, simulation, optimization and decision-making; to discuss operational research through mathematical modelling, and to apply relevant techniques such as multi-criteria decision making, Monte Carlo simulation, and single objective optimization in ship design and ship/port operations; to apply problem-solving skills and theoretical knowledge to the development of open source script-based programming and to use a variety of software tools; to employ financial risk simulation to analyse the value of strategic investments, including cost, financing and economic evaluation; to discuss the fundamental concepts, methods and criteria technique with investment assessment; to identify drivers of demand and supply in the maritime energy markets and sustainable investment for ships, ports and shipyards; to apply cash flow budgeting and investment appraisal for ships, ports and shipyard projects; to discuss Life-Cycle Cost Analysis (LCCA) and Levelized Cost of Energy (LCOE) within maritime energy management context.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

MARITIME LAW & POLICY

This specialization has been designed for people working in policy formulation or an advisory capacity at an executive level, whether in the public or private sector. It provides the essential knowledge and understanding of maritime administration issues required by such senior maritime personnel, and gives in-depth appreciation and advanced knowledge of the law and policy related to international maritime transport.

ADM 501 **Introduction to Roles and Obligations of Maritime Administrations** **8 EC**

To provide a broad overview and appreciation of the role of government in the administration of maritime affairs. To define and examine maritime administration conceptually, and in terms of maritime governance, such as implementation of maritime conventions, particularly under the IMO III Code, and flag, port, and coastal State obligations through maritime administrations and/or other responsible agencies. To provide an overview of the IMO Mandatory Member State Audit Scheme as a tool to assess member state performance.

POL 103 **Maritime Policy Design, Implementation, and Analysis** **8 EC**

To introduce the concepts and basic principles of public policy as they relate to the maritime milieu. To provide a broad overview of the maritime policy cycle including agenda setting, formulation, implementation, and evaluation, applied within the context of the development of measures to promote safety, security, environmental protection, and efficiency in the maritime industry. To present fundamental concepts and issues related to analysing maritime policies and determining whether resultant activities and services have been or remain relevant, effective, and cost-efficient.

LAW 509 **The Law of the Sea and the Protection of the Marine Environment** **8 EC**

To provide a clear understanding of the nature, constituent parts and dynamics of the international law of the sea and to appreciate its implications and influence on maritime administrations and their specific interests. To offer a deep appreciation of the international legal framework applicable to various maritime zones under the UN Convention of the Law of the Sea (UNCLOS) and to apply law of the sea concepts and principles in the context of a hypothetical case to be tried in a Moot Court Competition. Special emphasis is given to various public, regulatory and private law conventions of marine pollution including MARPOL, London Convention, BWM, AFS, Hong Kong Convention, OPRC, CLC, FUND, HNS, BUNKER among others, and the laws of wreck and salvage. Policy development and implementation related to marine environmental protection specifically, and ocean governance more broadly, are explored.

LLP 102 **Law and Policy in Maritime Safety, Security, and Labour** **8 EC**

To provide a clear understanding of the international legal framework for safety management and maritime security in the context of maritime transport under different initiatives embodied in IMO instruments. To provide the basic principles of IMO´s approach to the human element in the maritime field, including the STCW Convention and other international instruments, as well their role in enhancing occupational health and safety on board. To examine the development of international maritime labour standards under the aegis of the International Labour Organization (ILO), with a focus on the Maritime Labour Convention, 2006 (MLC, 2006), the Seafarers' Identity Documents (Revised) Convention, 2003 (No. 185), and the Work in Fishing Convention and Recommendation, 2007 (No. 188 and No. 199).

LAW 150 **Maritime Commercial Law** **8 EC**

To impart a clear understanding of transport-related commercial law and policy, in particular in relation to international trade (INCOTERMS), related contracts of carriage and the relevant transport documents issued. To gain substantive knowledge about carriage of goods by sea under charter parties and bills of lading, including liability of the carrier for damages to cargo or loss of cargo. To understand the relevance of marine insurance and general average in maritime commercial law. To provide an understanding of the law relating to maritime claims and their enforcement, arrest of ships, and basic knowledge about maritime liens and mortgages.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

MARITIME SAFETY & ENVIRONMENTAL ADMINISTRATION

This specialization has been designed for experts who serve or will serve at a senior level in public or private maritime organizations, in the fields of advice and policy implementation on IMO standards related to maritime safety and security, occupational health and safety as well as marine environmental issues. It provides comprehensive understanding of maritime administration activities in the context of IMO, and the essential management tools required by senior maritime personnel to implement safety, security and environmental protection standards.

IMO 102 **IMO Member State Obligations** **8 EC**

To analyze maritime administration and policy formulation. To examine IMO member State obligations and introduce the IMO III Code.. To explore the IMO member State audit scheme and Key Performance Indicators as tools to assess member State performance. To illustrate the role of Recognized Organizations To analyze mechanisms for the enforcement of IMO instruments. To apply cross-cutting safety precepts such as risk assessment, Formal Safety Assessment and resilience in relation to maritime casualty investigation obligations of member States.

MSS 601 **Maritime Safety and Security** **8 EC**

To investigate the application of risk management and safety in the maritime context. To examine IMO instruments and principles covering the design, construction, equipment and operations of ships. To explore SOLAS and interconnected maritime safety and security domains with special emphasis on the operational attributes of the ISPS and ISM Codes. To apply tools to enhance safety at sea, such as Life Saving Appliances and Firefighting Codes. To illustrate technological transformation in the "era of digitalisation", including IMO's e-Navigation initiative, emerging issues of cyber-security and Marine Autonomous Surface Ships (MASS).

SFS 101 **Seafarers in the Sociotechnical System** **8 EC**

To apply system thinking in the context of the maritime human element. To examine human factors and their incorporation in the maritime domain with case studies encompassing fatigue, manning and expert decision-making. To appraise the status of occupational safety and health at sea. To understand the IMO and ILO instruments related to seafarers including STCW and the MLC, 2006. To recognize the impact of the ISM Code in the occupational context. To consider the role of maritime administrations with particular reference to crew supply, manning and certification of seafarers.

ENV 502 **International Reaction to Environmental Externalities** **8 EC**

To introduce key notions in marine environment protection such as externality, governance and social perception. To discuss the various international instruments related to marine environment protection. To examine MARPOL and its implementation and enforcement mechanisms with special emphasis on air emissions from ships including other instruments related to reduction of GHG. To explore the notion of biosecurity and key related instruments such as the Ballast Water Management Convention, Anti-fouling Systems Convention, Biofouling guidelines, and WHO International Health Regulations. To examine the issues related to recycling of ships and inventory of hazardous materials.

CSO 101 **Coastal State Obligations** **8 EC**

To assess coastal State obligations for safety of navigation, Search and Rescue, and pollution response. To cover applied methods, tools and techniques involved in Vessel Traffic Management Systems. To analyze the organization and management of Search and Rescue systems at the global, regional and national levels. To examine sources of pollution and, the science and technologies for pollution monitoring and control. To interpret IMO instruments related to pollution response and to identify the civil liability and compensation regime for marine pollution damage. To explain the necessity of contingency planning as part of the overall risk management process.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

OCEAN SUSTAINABILITY, GOVERNANCE & MANAGEMENT

This specialization has been designed for those who work in the maritime and ocean sectors and offers an ecosystem-based approach to the governance and management of the interconnected global ocean and social-ecological systems. Students learn about ocean processes, ecosystem functions and marine resources, and how society depends on, interacts with and impacts the health and sustainability of the ocean and coasts. Students gain a sound understanding of ecosystem based management, international law of the sea and ocean governance structures, including also ocean-related UN institutions and systems. Key goals for sustainable ocean governance and responsible ocean business practice are also explored. The specialization is designed to deliver the knowledge required to incorporate the United Nations 2030 Agenda for Sustainable Development into the domestic ocean governance policies of graduates' home countries, and seeks to develop the transdisciplinary skills necessary for the fulfillment of the responsibilities graduates will assume.

OCE 112 **Understanding the Ocean and Human Impacts** **8 EC**

To understand ocean processes, the range of environments and the patterns of biodiversity across the World's oceans and coasts. To evaluate marine ecosystem goods and services provided to societies. To assess the cumulative impacts of climate change and the growing human use and exploitation of the oceans and coasts. To review the range of evidence-based approaches, data sources and analytical tools used to understand, monitor and assess human impacts and the status of marine ecosystems. To evaluate methods and strategies designed to mitigate adverse human impacts and restore ecosystem function.

OCE 108 **Governing Human Activities that Affect the Ocean** **8 EC**

To consider human activities that affect the ocean, examining a range of governance tools to manage these activities and their impacts. To consider traditional regulatory tools, standard setting and other tools, such as the use of economic instruments, voluntary measures, education, environmental impact assessments, smart regulation and new government approaches. To consider the role of government actors, proponents, stakeholders and members of the public in ocean governance.

OCE 113 **Cross-disciplinary Tools for Ocean Sustainability, Governance & Management** **8 EC**

To understand the scientific method, cross disciplinary approaches and to raise awareness of other ways of knowing. Through in-depth research, analysis and interpretation, develop the knowledge required for achieving sustainability, including positive social and environmental outcomes. To provide knowledge and skills in quantitative and qualitative research instruments to assess ecosystem-based management of oceans and coasts.

OCE 110 **Global Ocean Governance, Multilateral Diplomacy & Negotiation** **8 EC**

To provide a sound understanding of the international legal framework for ocean governance under the United Nations Convention on the Law of the Sea (UNCLOS) including ocean-related commitments made by the global community, focusing on the 2030 Agenda for Sustainable Development. To understand and develop practical skills in multilateral diplomacy and negotiation in an ocean governance context.

OCE 111 **Area-Based Management of the Ocean and Coasts** **8 EC**

To provide an overview of the principles and practical implementation of area-based management tools used to support the governance and management of increasingly diverse and intense human activities, and expanding resource usages in the dynamic ocean. To address concepts such as connectivity, decision-support tools, principles of marine reserve design, management of cumulative impacts, spatial management tools such as ocean zoning, marine protected areas, and marine spatial planning.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of theory taught in the specialization subjects. Students travel to major maritime and ocean destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

PORT MANAGEMENT

This specialization has been designed for port managers and those at an executive level in port authorities, transport planning departments or private companies. It provides a thorough understanding of different aspects of port management, including both the technical and commercial aspects and the principles and practices of modern port management.

SPM 505 **Introduction to Maritime Business and Management** **8 EC**

To provide an overview of global seaborne trade, trade patterns and development for liner and tramp (dry bulk and tanker) services. To provide a fundamental understanding of maritime business and management. To introduce modern shipping and port management from commercial, operational, technical and human perspectives in international maritime transport and logistics and their importance to (inter)national and/or regional economies. To exchange a series of views with industry professionals and discuss the latest challenges, key performance indicators, and implementations in practice. To introduce the basis of quantitative methods with Microsoft Excel© for informed decision-making.

SPM 502 **Maritime Analytics** **8 EC**

To introduce economic models and market analytical tools in shipping, ports and logistics using advanced statistical concepts. To offer econometric modelling techniques, skills and experiences for conducting empirical research for shipping and port management. To apply quantitative models, with real market data and statistical software, in order to find a solution from complex transport and logistics problems, having an emphasis given to shipping and port industries. To enhance decision-making capabilities with supporting evidence.

SPM 503 **Maritime Marketing and Logistics** **8 EC**

To discuss, in the context of global maritime transport, the concept and development of modern marketing, and logistics and supply chain management. To examine the evolving position of shipping and ports in the global logistics and supply chains. To introduce a series of conceptual models and analytical tools as well as decision-making processes of marketing and logistics management and their applications to the shipping and port sector. To conduct an industry-specific case study.

SPM 504 **Maritime Investment and Finance** **8 EC**

To introduce the principles of maritime financial management and the impact of economic variables on the operations of maritime business organizations. To understand the strategic challenges in the maritime industry, including operational, commercial and financial risks. To identify and analyze various risks associated with the shipping and port markets and provide robust traditional and financial risk management solutions to hedge the exposures. To maximize and secure return on investment at the desired level of financial risks. To conduct topic-based case studies in a way to enhance decision-making capabilities for maritime stakeholders at various stages of the market cycle.

POR 103 **Port Management and Operations** **8 EC**

To introduce the principles of port governance and management, and examine the relationships between port and hinterland. To discuss port pricing concepts and their implementations in practice. To review demand forecasting, port planning and strategies at various levels. To introduce quantitative methods and tools for optimizing terminal berth planning, quay transfer operations, storage and receipt/delivery operations. To introduce advanced information management tools for container terminals. To discuss digitalization and digital transformation in port management and operations. To exchange views with port practitioners in a seminar format, providing an opportunity to apply the concepts and principles to the real-world cases.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

SHIPPING MANAGEMENT & LOGISTICS

This specialization has been designed for shipping and logistics managers and those at an executive level in shipping or logistics companies or public administrations. It provides a thorough understanding of different aspects of shipping and logistics management, including both the technical and commercial aspects and the principles and practices of modern shipping management.

SPM 505 **Introduction to Maritime Business and Management** **8 EC**

To provide an overview of global seaborne trade, trade patterns and development for liner and tramp (dry bulk and tanker) services. To provide a fundamental understanding of maritime business and management. To introduce modern shipping and port management from commercial, operational, technical and human perspectives in international maritime transport and logistics and their importance to (inter)national and/or regional economies. To exchange a series of views with industry professionals and discuss the latest challenges, key performance indicators, and implementations in practice. To introduce the basis of quantitative methods with Microsoft Excel© for informed decision-making.

SPM 502 **Maritime Analytics** **8 EC**

To introduce economic models and market analytical tools in shipping, ports and logistics using advanced statistical concepts. To offer econometric modelling techniques, skills and experiences for conducting empirical research for shipping and port management. To apply quantitative models, with real market data and statistical software, in order to find a solution from complex transport and logistics problems, having an emphasis given to shipping and port industries. To enhance decision-making capabilities with supporting evidence.

SPM 503 **Maritime Marketing and Logistics** **8 EC**

To discuss, in the context of global maritime transport, the concept and development of modern marketing, and logistics and supply chain management. To examine the evolving position of shipping and ports in the global logistics and supply chains. To introduce a series of conceptual models and analytical tools as well as decision-making processes of marketing and logistics management and their applications to the shipping and port sector. To conduct an industry-specific case study.

SPM 504 **Maritime Investment and Finance** **8 EC**

To introduce the principles of maritime financial management and the impact of economic variables on the operations of maritime business organizations. To understand the strategic challenges in the maritime industry, including operational, commercial and financial risks. To identify and analyze various risks associated with the shipping and port markets and provide robust traditional and financial risk management solutions to hedge the exposures. To maximize and secure return on investment at the desired level of financial risks. To conduct topic-based case studies in a way to enhance decision-making capabilities for maritime stakeholders at various stages of the market cycle.

SHM 103 **Shipping Management and Policy** **8 EC**

To provide advanced knowledge of shipping management at a company level and shipping policy at a country level and discuss an aspect of inter-related management and policy dimensions in the shipping industry. To introduce management concepts, models and tools applicable to shipping companies. To examine the organizational and strategic dynamics of business units in a context of shipping companies, ship-management structures, and performance measurement. To discuss managerial and strategic challenges facing the shipping sector at a series of workshops in a way of interacting with practitioners. To conduct case studies as an effort to apply those learned theories into the practical world.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

DISSERTATION

All students write a dissertation, which may be based on a particular issue relating to their work in their home country. The dissertation topic and proposal must be approved by the University, and may involve original research, or be an analysis of a topic based on secondary sources. Students start the process in the first term; special arrangements will be made for students following the accelerated programme.

Students may write an individual dissertation, or may produce a longer piece of work in pairs or trios, with the University's approval. The dissertation provides an opportunity for originality in developing and/or applying ideas, and applying knowledge and understanding how to solve problems. It also develops skills in communicating conclusions, and the knowledge and rationale underpinning these, clearly and unambiguously.

RES 420	**Dissertation Research** To develop rigorous skills of theoretic and applied research, analysis and writing through in-depth study of a chosen subject or problem leading to the production of a dissertation at Master's level.	**20 EC**

MPHIL IN MALMÖ AND MALTA

INTERNATIONAL MARITIME LAW AND OCEAN POLICY

INTERNATIONAL MARITIME LEGISLATION AND OCEAN POLICY

The ocean is under threat from human activities, arising in part from the lack of proper governance of the waters within and beyond the limits of national jurisdiction. There is an urgent need to examine and reconsider the current regime to seek a secure, stable, safe and sustainable ocean governance for the 21st century.

The innovative MPhil programme has been designed in partnership by IMO's two sister institutions, WMU and the IMO International Maritime Law Institute (IMLI) in Malta, to play a part in ensuring the future sustainability of the world's oceans in accordance with the UN 2030 Agenda for Sustainable Development. The two-year programme is designed to train maritime experts, immersed in the UN system structure and goals, who can advocate for the policies and legislation to transform the world's oceans and support their sustainable development. The programme had its first intake in 2017.

PROGRAMME DETAILS

Students spend the first academic year in Malta from October to May, and follow one of IMLI's well-established programmes: either the LL.M. in International Maritime Law or the M.Hum. in International Maritime Legislation. The full details of both programmes can be found on IMLI's website (**www.imli.org**) and are organized under the following headings:

- Introductory Courses
- International Law of the Sea
- International Marine Environmental Law
- International Maritime Security Law
- Shipping Law
- Maritime Legislation
- Dissertation/Research Project (supervised jointly by IMLI and WMU) reflecting the needs of students' home countries or regions for adequate ocean governance

Students are expected to use the non-teaching period from June to September to gather dissertation material. The students then spend the next academic year in Malmö. The first, Foundation term provides the basics of maritime knowledge, and is followed by the Specialization Term in Ocean Sustainability, Governance and Management (see page 28 for details of the subjects).

The programme is taught entirely in English. The standard programme consists of 140 EC, 68 EC at WMU and 55 EC at IMLI, plus a further 17 EC for the dissertation/research project. Students who already hold a relevant postgraduate qualification may apply to be exempted from the first term at WMU to allow them to join the accelerated programme, which carries 116 EC.

FIELD STUDIES AND SEMINARS

As part of the programme, students will take part in field study visits that link theoretical knowledge to practical experience. Typical destinations include Sweden, Denmark, the UK including IMO (London) and the Netherlands. Students also receive complimentary attendance at the international conferences organized annually at IMLI and WMU.

ENTRY REQUIREMENTS

Applicants must hold a first degree in law or in a discipline related to maritime law, and an internationally recognised test of English language proficiency. They are also expected to have professional experience.

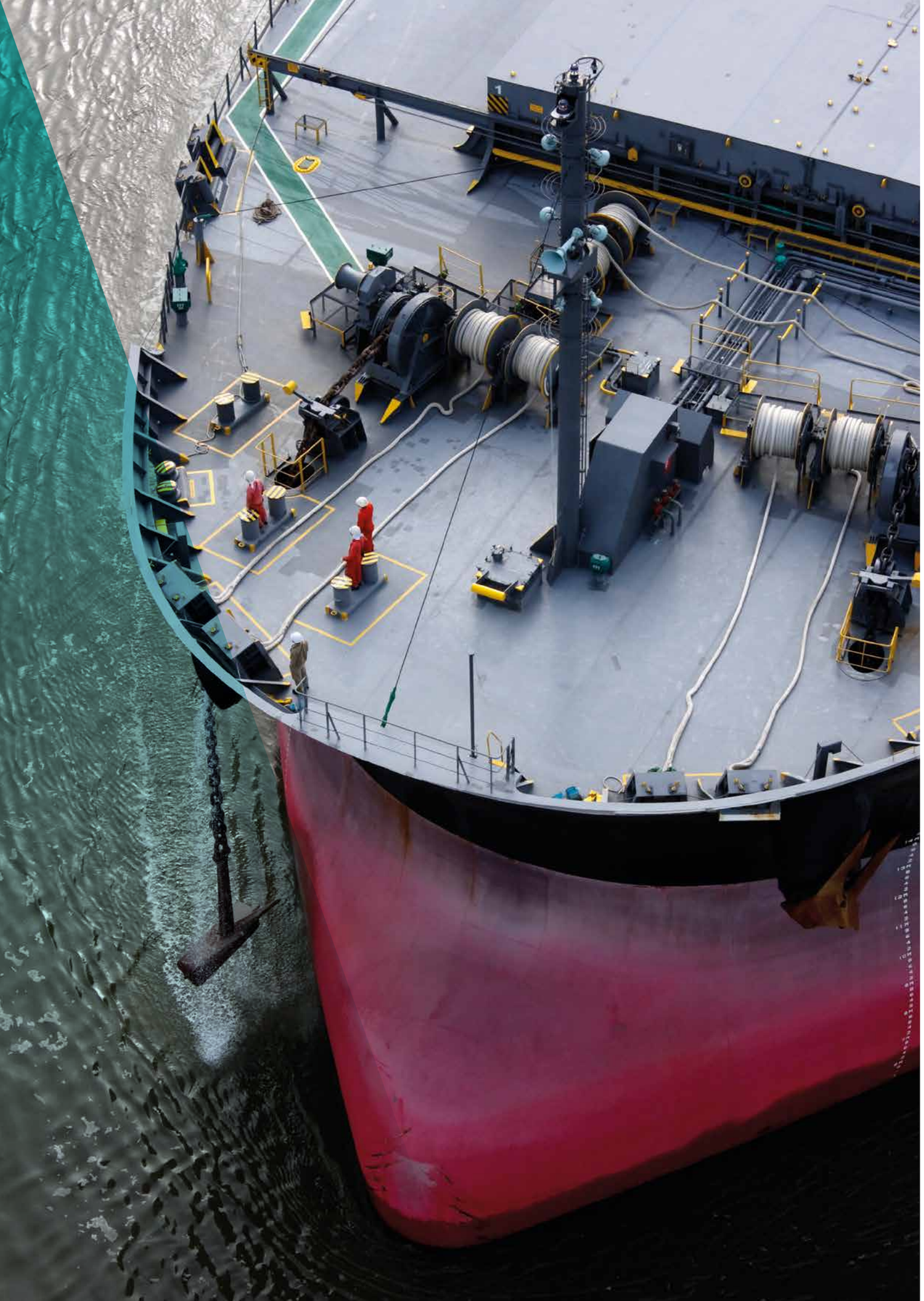
FEES AND COSTS

The fee for the MPhil programme is Euro 37,000 in total; this covers tuition, field studies, and the required health insurance. Students also need to have funds for their living expenses. These will be around USD 1,500 per month.

APPLICATION PROCESS

The application form for the programme can be found on the IMLI website (**imli.org**). It must be submitted as a hard copy, along with evidence of payment of the €150 application processing fee to:

The Director
IMO International Maritime Law Institute
University of Malta Campus
Msida MSD 2080
Malta



PhD IN MARITIME AFFAIRS

WMU's PhD programme offers students the opportunity to carry out research across the maritime field, but with an emphasis on issues related to the International Maritime Organization's mission of maritime safety, security and marine environmental protection. Our PhD programme offers unrivalled access to international maritime experts both inside and outside academia, and to organizations working at the forefront of research and development.

PhD students have come to WMU from industry, academia and the government sector, and have completed their dissertations in a very wide range of subject areas, from the development of marine plastic debris monitoring programs to a value chain analysis of the role of maritime logistics systems in emerging economies.

THE CREDIT SYSTEM

The PhD programme consists of 240 ECTS credits completed usually over a registration period of three to six years. Candidates may be based at the University or elsewhere, usually at their place of employment.

Within the time limits of three to six years, candidates may carry out doctoral research at their own pace, which can also vary during their period of enrolment. For example, candidates may choose to spend one year conducting research at WMU full time, and then return home to complete their research over a longer period, with short visits to the University for progression seminars and meetings.

The PhD programme is made up of appropriate third-cycle taught subjects totalling 60 EC and a doctoral dissertation which carries 180 EC. Candidates earn mandatory credits from the subjects Research Methods (8 EC) and PhD Portfolio (16 EC) as well as an additional 16 EC for the progression seminars. A further 20 EC of elective courses are selected by the candidate in coordination with the PhD supervisor(s). In addition to the PhD subjects delivered at WMU, credit may be awarded for PhD subjects taken at other Swedish and European universities, subject to the approval of the Director. The taught subjects, proposed time-table, planned conference participation, and status of dissertation research form part of the candidates' Individual Study Plan (ISP).

1 ECTS credit (EC) is approximately 25 study load hours. One academic year is generally 60 EC, or 1500 study load hours, or 36 hours per week over an academic year of 20 weeks. For someone who is studying part-time, the average study load will vary.

PROGRESSION

During the first phase of doctoral studies, candidates develop their research proposals. At the end of this initial period, the first progression seminar is held, at which candidates each present their research proposals.

Throughout the doctoral programme, further progression seminars are held where the candidates present their work to date and

their research plans for the next twelve-month period. After every seminar, the Progression Board meets, and considers the candidate's progress. At this Board meeting, decisions are taken as to whether the candidate is to be permitted to progress to the next stage of the research.

Each PhD dissertation is assessed by a specially established committee, consisting of two external examiners and one internal examiner. The oral examination itself is led by a senior and well recognized external expert in the relevant field, from another university or established organization.

A candidate's enrolment can be terminated at any point if his/her progress is not considered to be satisfactory.

ADVANCED STANDING

A candidate who has completed part of a doctoral degree elsewhere may transfer into the WMU programme with advanced standing. Their period of enrolment at WMU will vary in line with the amount of research they have already completed, but the minimum permissible period of enrolment must include at least two progression seminars, 20 EC of electives and the dissertation. A candidate with advanced standing must therefore be registered for at least 12 months.

SUPERVISION

All doctoral students have a principal supervisor who is a member of the resident faculty. According to the topic of research, a student may also have a co-supervisor, who may be a member of the resident faculty, a Visiting Professor or a suitable person from outside the University.

APPLICATION FOR ADMISSION

All candidates must complete their applications online through the WMU website, attaching a detailed research proposal outlining the objectives and methodology of their research. In addition, they should arrange two letters of academic reference from people familiar with their suitability for doctoral research. Certified copies of transcripts and certificates (including the results of an internationally recognized test of English language) supporting the qualifications listed on the form, must be uploaded.

When an academically cleared candidate has paid the first fee instalment, enrolment can be finalized. At this point, each candidate will receive a medical report form, which must be returned to the University, along with a formal declaration that the candidate accepts the conditions of his/her enrolment.

ENTRANCE REQUIREMENTS

The Admissions Board will consider only those applicants who meet the minimum general entrance requirements, which are:

- a Master's degree, with a dissertation, in a relevant discipline, or an equivalent university qualification
- competence in English language, demonstrated by an internationally recognized standard test
- computer competence

The Admissions Board will select only the best-qualified candidates, taking into account all their qualifications and achievements. The Admissions Board may require applicants to appear for an interview, either on-campus or through remote video, as part of the admissions process.

TESTS OF ENGLISH

Applicants must offer one of the following tests of English language:

Test of English as a Foreign Language (TOEFL)

96+ in the internet-based test.

590+ in the paper-based test.

WMU's TOEFL institution code is 9198.

International English Language Testing System (IELTS)

Band 7.0 or above.

Cambridge Examinations

Cambridge Proficiency Examination at grade A or B.

GCE O-level or the equivalent

A good pass grade.

More information on these examinations may be obtained through the following websites:

www.toefl.org
www.ielts.org
www.cambridgeesol.org

RESEARCH PRIORITY AREAS

Doctoral research at WMU falls mainly within one of the following research priority areas (RPAs), covering both maritime and ocean streams. Additionally, the WMU programme also offers excellent opportunities for interdisciplinary projects, allowing doctoral candidates to pursue their own, and their organization's, particular interests.

Environmental Impact of Maritime Activities

This RPA is linked to the precarious state of the environment in respect of life due to human activities. Research in this area will seek to explore the effects of maritime activities on the natural environment, ways (at policy and operational levels) of limiting and ideally avoiding such effects, and the development of new and sustainable practices for the maritime industry. The development and implementation of international instruments for the protection of the marine environment is also a key topic area of the RPA.

Maritime and Marine Technology and Innovation

This RPA interrogates developments of technology in ship design and operations (including the evolution of automation and digitalization), education and training (including e-learning), ship safety, information and communication for ship business (e-documentation) and its effect on the social, legislative and administrative dimensions of shipping. The cross-cutting nature of technology and innovation establishes an almost universal link between this RPA and all the other RPAs.

Maritime Economics and Business

This RPA focuses on the optimization of shipping, ports and their sustainable management from economic and logistics/supply chain perspectives. It explores all areas of shipping and port management, and offers the chance of carrying out in-depth investigation within the fields of maritime economics and policy, shipping and/or port operations and management, and shipping finance and portfolio management, as well as in such related fields as global supply chains and maritime logistics, port governance and performance, and maritime analytics using big data.

Maritime Energy Management

This RPA seeks to advance the knowledge in the Maritime Energy Management field by conducting world-class fundamental and applied research in the thematic areas of energy efficiency, regulatory frameworks, renewable energy, social factors related to energy, the economics of energy and energy-related technology/innovation. The thematic areas will be addressed using a ship life-cycle perspective (design, production, operation and recycling) and in consideration of the impacts of shipping on oceans, through ports and to shipyards.

Maritime Law, Policy and Governance

This RPA focuses on maritime legislative and administrative requirements and the policies that are associated with them at the international, regional and national levels. Of particular interest is the inquiry into processes related to the design, formulation, and evaluation of maritime law and policy. This includes examining performance monitoring systems using such tools as benchmarking and auditing. Also of particular importance is the research into implementation mechanisms, e.g., under the legal enforcement regimes prescribed by the IMO, ILO and other UN bodies.

Maritime Safety

This RPA focuses on complex concepts and models of safety and their influence on operations at sea and ashore. It will examine digitalization, artificial intelligence and machine learning in a simulation context. It will also explore how safety and security can be improved through policy, legislation, social dynamics (human factors/ergonomics), accident aetiology, and simulation. The research area also covers the increasing disruption by technology of traditional approaches to maritime operations and the consequences of this on operational safety, security, human factors and labour supply.

Maritime Social and Labour Governance

This RPA focuses on organizational behaviour and decision-making processes by examining dynamics of corporate interaction, in particular in global networks and supply-chains, and with humans. It also seeks to interrogate issues related to individuals and organizations and their development through education, training and organizational learning. It aims to create a better understanding of the interactions between humans and organizations in order to optimize well-being and overall performance and in particular the role of education in this regard.

WMU-Sasakawa Global Ocean Institute

The WMU-Sasakawa Global Ocean Institute carries out and coordinates ocean research in line with its vision to act as an independent focal point for the ocean science-policy-law-industry-society interface where policy makers, the scientific community, regulators, industry actors, academics, and representatives of civil society meet to discuss how best to manage and use ocean spaces and their resources in accordance with the UN SDGs. Through evidence-based research, the Institute seeks to provide new perspectives on how to address the manifold threats facing the ocean.

All the RPAs are considered with reference to the UN SDGs and IMO's current strategic directions which are, in turn, informed by the Organization's global survey on trends, developments and challenges (TDC), as well as WMU's Strategic Plan and its associated Business Plans.

TUITION FEES

The full University fee is USD 37,000, and is charged in four equal instalments. The first installment is paid upon enrollment, while subsequent installments are paid prior to the second, third, and fourth progression seminars. The tuition fee includes supervision, library and laboratory access, IT support, and medical, life and accident insurance.

In addition, a student needs around SEK17,000 per month for rent and general living costs in Malmö, plus air tickets. Since WMU is a UN institution and not part of the national Swedish education system, our students cannot claim study support from the Swedish government or any other EU state. Other sources of financial support (for example, the US Department of Veterans Affairs) may be accessed by candidates.

LIFE IN MALMÖ

MALMÖ

Malmö is Sweden's third largest city, situated in the southern-most province of Skåne. The city offers good shopping facilities, theatres, bars, cafés and restaurants, as well as an outstanding symphony orchestra, art galleries and museums. Malmö has a big student population, and was voted Sweden's Student City of the Year 2021 – 2022 by the national Association of Student Unions, in recognition of the excellent lifestyle the city offers.

Although Malmö may look typically Swedish, with its historic buildings and canals, it is also very cosmopolitan; many of its citizens were born outside Sweden, and over 170 different countries are represented in the city. It is a green city known for its parks and gardens and for its responsible attitude to sustainable development. The Western Harbour area of Malmö has been studied by many international teams looking at its innovative architecture and landscape design.

Malmö has strong historic bonds with the maritime industry; it was an important medieval sea-port and had a thriving ship-building industry for many years. It is also a city with a knowledge-based economy that places a premium on learning and research, being home to its own University, several faculties of Lund University and to WMU. The city has developed high-technology industries to make the best use of its educated workforce. It is home, for instance, to a remarkable number of computer gaming companies.

Malmö's sports provision is excellent, whether you want to watch or take part. Its football team is one of Sweden's best. Other popular sports in Malmö are ice-hockey, sailing, golf, tennis and horse-riding. The city is surrounded by rolling countryside and some of the best beaches in Sweden.

The Öresund Bridge provides Malmö with a direct road and rail link to Copenhagen and its international airport, just 30 minutes away by train or bus. Copenhagen's historic centre has all the attractions you would expect from any European capital, as well as some special features of its own, like the Tivoli Gardens.

The City of Malmö, as WMU's host, provides the University's building in the centre of the city, which offers outstanding facilities in a spectacular building.

ACCOMMODATION

WMU is able to provide excellent student accommodation at the Henrik Smith Residence, run by on-site staff, at a rent of approximately SEK 5,200 (2021 figure) per month. All WMU students can be accommodated on one site, although during the First Term, high-demand period students may to be required to share a room. The Henrik Smith Residence is less than three kilometres from the main University building, and only a short walk or bus-ride to the centre of Malmö.

The Residence has a range of facilities, including a lounge area for social meetings or group work, study rooms, facilities for playing pool and table-tennis, a sauna, laundry facilities and indoor storage space for bicycles.

PASSPORTS AND RESIDENCE PERMITS

If at all possible, make sure that you have a passport that is valid at least as long as your whole study period.

You should apply for a residence permit as soon as you get your enrolment documents, even if you do not need a visa to enter Sweden (note: if you are an EU national, different rules apply). Under our agreement with the Swedish Government, students of the MSc in Maritime Affairs programme (but not those on the PhD programme) are issued with a Swedish residence permit for the whole period of their studies. This allows travel to Sweden via other Schengen countries without obtaining additional or transit visas.

You should be aware that airlines will refuse to carry passengers without a valid residence permit or entry visa for their country of destination. It is therefore very important that you should start to apply for your residence permit as soon as possible. The process can often take up to three months, and sometimes longer, and the University is not able to assist incoming students with this.

WMU students' families follow the same procedures as any other visitor coming to Sweden and the process for obtaining a temporary residence permit can be very lengthy. Sometimes processing permits for whole families can take longer than for individual students. Note that your highest priority should be to arrive on time for the start of your programme, which begins in full strength on the advertised date. Please see the section on **Should you bring your family to Malmö?** for full details

HEALTH CARE

The University takes out medical insurance to cover treatment in Sweden, as well as emergency treatment during field studies abroad. This health insurance covers sudden illness and accidents; it does not cover pre-existing conditions not mentioned on your pre-enrolment medical report. The insurance will also recompense students for the cost of prescription medicines. The insurance does not cover treatment from an optician, and gives only limited dental cover. Make sure you read the Fees and Facilities booklet, which contains the latest information available.

Students have free access to a sports centre close to the University and WMU can facilitate membership at a gym very close to the student residence.

If you are planning to bring your family to join you in Malmö, it is compulsory to take out private medical insurance to cover them. The University insurance for you cannot be extended to your family. (See the section below on **Should you bring your family to Malmö?** for more information.)

STUDENT SUPPORT SERVICES

The WMU community is welcoming and supportive. Senior students and staff join in helping newcomers settle and find their way. An orientation programme is given to each group of new students to provide an introduction to the University and living in Sweden. This is supplemented by a comprehensive information and advice service.

When you arrive, the Student Council arranges for you to be met by a 'buddy' – another student who can help you with all the practicalities of living in Sweden, and who can make sure you find your feet immediately. Later, you will be invited to give similar help to new students.

The University provides students with accident and travel insurance during their study period, in addition to the medical insurance described above. Students are assisted in obtaining the visas needed for field studies abroad.

STUDENT LIFE

As a member of the WMU community, you can benefit from a broader experience both as a professional and as an individual. The University offers you the chance to establish friendships with people from all over the world, and to become, temporarily, a member of Swedish society. Students are encouraged to take full advantage of all that their time at WMU has to offer.

Students at WMU have a voice in the affairs of the University through the Student Council, which has special officers responsible for all areas of student life, from sports activities to academic affairs. You can get involved in all the things that interest you.

You might want to bring your national dress with you when you come to Malmö – you will be asked on a number of occasions to represent your country while you are here, and many students are proud to wear their national dress.

ALUMNI

When you graduate, we make sure you can keep in touch with the University through webinars and online discussion forums. Many countries have lively alumni associations, which are part of a global network.

Some graduates have returned as resident academic staff or visiting lecturers. Many meet again at conferences, seminars and IMO meetings. Social media provides another forum for continuing professional collaboration with WMU contacts, as well as for keeping up informally with friends made in Malmö. The networking opportunities offered by studies at WMU are invaluable and extend far into the future.

SHOULD YOU BRING YOUR FAMILY TO MALMÖ?

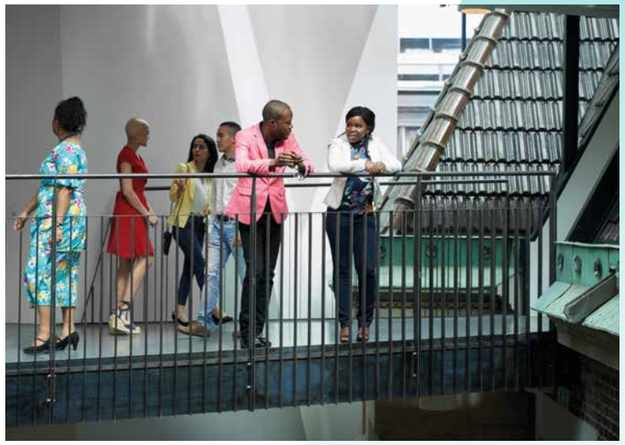
Many students wish to bring their families to Malmö, but in reality very few can afford to do so. It is costly and making arrangements for your family is time-consuming, especially in a foreign country. Students find their studies very demanding and difficult to balance with family life. If you decide to bring your family you should in any case arrive here alone. This will allow you to make suitable arrangements for their accommodation, as children are not allowed to live at the Student Residence at any time. The cost of renting a basic apartment is currently around SEK12,000 per month, plus utilities. Very few apartments are currently available, especially in this low price range.

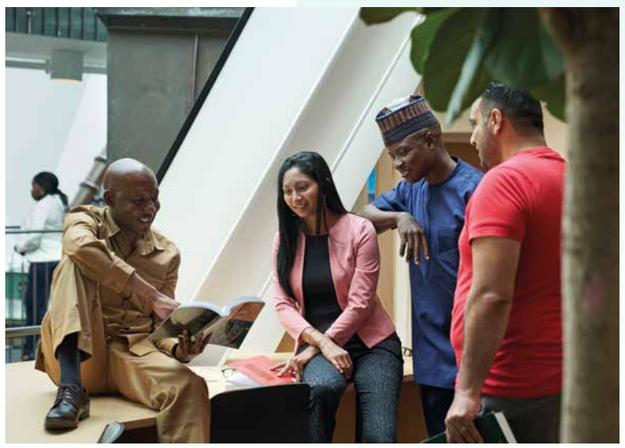
The arrangements made by the University apply only to students, and not to dependants. If you bring your family, you must arrange financial support for them, quite apart from any fellowship that you may yourself hold. Your home government or employer is expected to continue to pay your salary while you are studying at the University, particularly to support your family, whether they remain in your home country or come to Malmö. Such arrangements are entirely a matter for students and their sponsoring government/organisations, and do not involve the University in any way.

If you intend to bring your family to Malmö, you must obtain the necessary immigration clearance for them to enter Sweden before they leave your home country. The maximum period they may join you for is 12 months during your enrolment, regardless of the length of your enrolment. You must be able to demonstrate to the Swedish authorities that you can support your family financially, in line with Swedish regulations, and that you can afford the necessary health insurance for the whole period of their visit. Such insurance is quite expensive.

If you are joined in Malmö by your husband or wife only, he or she may share your accommodation in the Residence from the second term onwards. Please remember that the apartments were designed and are equipped to accommodate only one person comfortably. It is not possible for children to live at the Residence, even for short periods, and so families with children must arrange outside housing at their own expense.

Instead of bringing their families for the whole period of their studies, many WMU students arrange a shorter visit during the summer months or at graduation.





WMU'S OTHER ACADEMIC PROGRAMMES

MSc IN MARITIME AFFAIRS, WITH A SPECIALIZATION IN INTERNATIONAL TRANSPORT AND LOGISTICS (SHIPPING & FINANCE): IN SHANGHAI

The Master of Science in Maritime Affairs, with a specialization in International Transport and Logistics (Shipping & Finance) is delivered in Shanghai, China, by WMU. It has been designed to extend WMU's professional education to a new and thriving clientele from the region and beyond, and to meet more of the maritime industry's demand for high-level specialized professionals. It has been created specifically for the maritime market in China. The programme is taught entirely in English,

and the entry requirements, grading system and quality assurance processes are those in force at WMU. Successful graduates receive a WMU Master of Science degree, with a certificate signed by WMU's Chancellor and President and a standard WMU transcript of grades.

The programme is intensive, and is taught over 15 months from March each year, and ending in September of the following year, with a vacation in the summer. The programme is made up of 80 degree credits. Each subject carries 4 EC, aside from the Dissertation, which carries 20 EC.

Foundation Studies and the Dissertation are identical to those taught in Malmö (see pages 19 and 35). The Specialization Studies consist of the following subjects:

ITL 101	**Accounting** To introduce the concepts and principles of financial and management accounting from the balance sheet and income statement, to monetary assets and revenue, cost of sales and inventory, fixed assets, debt and owners' equity. Management accounting is presented as a tool for management decision-making, planning and control, and covers costs and cost-volume profit relationships.	**4 EC**
ITL 102	**Decision making techniques** To consider available quantitative tools and illustrate how their use for better decision-making. To introduce the practical application of management science and decision-support methods. To provide an understanding of quantitative methods and statistics and their applications and develop the capacity to define and analyse problems.	**4 EC**
ITL 103	**Decision making techniques** To address the driving forces and enablers behind the third maritime technological revolution. To discuss the patterns of micro-level digital business transformation during this revolutionary process. To focus on the fundamentals of digital technologies and their relevance to maritime operations. To elaborate the characteristics of digitization and digitalization with relevant case studies. To develop skills and provide the necessary tools for students to create business value in a digitalization project.	**4 EC**
ITL 104	**International economics and globalization** To consider international economics and the global business environment, and to ensure a deep and full understanding of exchange rates, the trade balance, the WTO, and NAFTA. To discuss the effective management of an increasingly global business environment, and its influence on public policy and the international implications of such policies.	**4 EC**
ITL 105	**Finance & investment appraisal** To discuss the problems, issues and methods involved in ship finance and investment appraisal. To focus on critical evaluation of various financial evaluation methods in risky and uncertain situations. To analyse the general principles of maritime financial management and the impact of economic variables on the financial operations of maritime business organizations. To develop skills and provide the tools necessary to conduct accurate accounting reporting analysis and financial analysis for investment purposes in the maritime industry.	**4 EC**
ITL 106	**Integrated supply-chain management** To provide an understanding of contemporary logistics and supply chain management in the context of global economies and businesses, and to examine the influence of various logistics and physical distribution elements, including freight transportation, on local, regional and international economies. To introduce the basic principles of the design, implementation, planning and control of logistics and supply chain systems, especially for global business operations. Major strategic issues and decision-making processes with regards to logistics and supply chain management with integration of freight transport are discussed.	**4EC**
ITL 107	**Shipping key performance indicators** To provide a comprehensive understanding of concepts and tools that may become indispensable in the achievement of competitive advantages in the shipping industry. To provide cutting-edge approaches for managing, improving and measuring the performance of maritime companies.	**4 EC**
ITL 108	**Maritime logistics** To consider international transport and logistics companies as an integral part of global supply chains. To analyse the logistical challenges of maritime entities and to examine aspects of successful ship ownership, operation, and management. A stakeholder analysis will include ship owners and operators, port and terminal owners and operators, 3PLs, charterers, container and other marine equipment leasing companies, as well as a host of other auxiliary service providers.	**4 EC**
ITL 109	**Risk management & derivatives in shipping** To introduce the area of risk analysis and management in the maritime sector, through both traditional methods and modern financial instruments. To consider investment decisions in terms of returns and risks when managing shipping companies. To analyse the cash-flow position of companies to identify risks and returns and to explore traditional methods of dealing with them. Futures, forwards, options and swaps are analysed for hedging, investment and arbitrage purposes and their applications are outlined. Modern decision making tools, such as Value at Risk (VaR) are also explored.	**4 EC**
ITL 110	**Ship and fleet management** To consider the challenges of managing the operation of a vessel from a commercial and technical standpoint. To consider the requirements to ensure that vessels are fully compliant with regulatory and customer requirements while at the same time maintaining vessel operating budget disciplines. To analyse the challenges and the key competencies through a case study workshop	**4 EC**

Field Studies and Seminars

As part of the programme, students are offered the chance to take part in field study visits; destinations include Port of Shanghai, the Shanghai Shipping Exchange, and a number of shipping and logistics companies (subject to change). Students also attend a number of seminars.

Fees and Costs

The tuition fee for the next intake to the programme will be RMB 93,900.The fees for the programme are affected by currency fluctuations and may rise each year. In addition, a student needs a minimum of around RMB 80,000 to cover living costs in Shanghai for the whole study period (accommodation, food, books and study material and so on).

More Information

For more information about the programme, please see **https://www.wmu.se/programmes/msc-shanghai**

MSc IN MARITIME AFFAIRS, WITH A SPECIALIZATION IN MARITIME SAFETY & ENVIRONMENTAL MANAGEMENT: IN DALIAN

The Master of Science in Maritime Safety and Environmental Management is delivered in Dalian, China, by WMU. It has been designed to extend WMU's professional education to a new and thriving clientele from the region and beyond, and to meet more of the maritime industry's demand for high-level specialized professionals. It has been created specifically for the maritime market in China.

The programme is taught entirely in English, and the entry requirements, grading system and quality assurance processes are those in force at WMU. Successful graduates receive a WMU Master of Science degree, with a certificate signed by WMU's Chancellor and President and a standard WMU transcript of grades.

The programme is intensive, and is taught over 15 months from June each year, and ending in September of the following year, with a one-month vacation in the summer. The programme is made up of 80 degree credits. Each subject carries 4 EC, aside from the Dissertation, which carries 20 EC.

Foundation Studies and the Dissertation are identical to those taught in Malmö. The Specialization Studies consist of the following subjects:

MSEM 101 **Contingency planning, Search & Rescue and crisis management** **4 EC**
To consider maritime accidents and the large-scale threats to the safety of life, property and the environment. To provide basic knowledge of crisis management with an emphasis on its application in the maritime sector and in particular on SAR.

MSEM 102 **Applied marine engineering** **4 EC**
To provide a thorough understanding of marine engineering including theoretical knowledge of main propulsion systems, failure and maintenance, condition monitoring and fault diagnostics, green shipping technologies, and practical knowledge in terms of innovation of the powering system on board and other current issues.

MSEM 103 **Marine environment protection standards** **4 EC**
To present the current standards and requirements for marine environment protection, especially in the context of maritime transport. To provide a general overview of the future perspectives of marine environmental standards of ships and shipping, and to analyse .marine pollution sources, such as oils, chemicals in bulk, harmful substances in packaged form, sewage and garbage. To discuss the MARPOL Convention and its six Annexes, including Annex VI on air pollution, control of greenhouse gas emissions. To consider Special Areas and Particularly Sensitive Sea Areas (PSSAs).

MSEM 104 **Human factors in maritime safety and environment protection** **4 EC**
To define and describe the human element and it role in maritime accidents. To consider the relationship between human element and system-ship, and to examine the factors affecting human performance. To highlight the relationship with international instruments.

MSEM 105 **Legal issues and mandates in maritime administration** **4 EC**
To consider and discuss the legal issues and mandates that typically feature in the functions of a national Maritime Administration. To analyse the applications of international maritime convention instruments, as well as domestic laws as appropriate.

MSEM 106 **Maritime policy design, implementation and evaluation** **4EC**
To introduce the concepts of design, formulation, and implementation of maritime policy. To provide a broad overview of the steps in policy design and formulation including strategic planning, problem analysis, formulation of objectives, analysis of current situation and deficiencies, and development of measures to promote safety, security, environmental protection, and efficiency in the maritime industry. To provide a broad overview of the steps in the implementation of maritime policy including selection of appropriate instruments, project management, resource allocation, education and training, stakeholder participation, and public awareness and information campaigns. To explain the fundamental concepts and issues in the analysis and evaluation whether maritime policies and their resultant activities and services have been or remain relevant, effective, and cost-efficient.

MSEM 107 **Maritime casualty investigation** **4 EC**
To introduce the fundamental precepts of safety and risk, including risk assessment, safety and Formal Safety Assessment (FSA) as the main tool in the IMO rule-making process. To explore the relationship between risk assessment and maritime casualty investigation. To apply essential tools for the consideration of all relevant factors involved in the development of maritime accidents, such as human and organizational factors.

MSEM 108 **Prevention and combating of marine pollution** **4 EC**
To examine the policy and technical issues concerning the prevention and combating of important marine pollution, especially that caused by ship's ballast water and ship recycling. To focus on the rules and technical details relating to ballast water management and the development of the inventory of hazardous materials and ship recycle plan. To explain the BWM Convention and Hong Kong Convention

MSEM 109 **Maritime safety standards** **4 EC**
To provide comprehensive knowledge of maritime safety standards, and to introduce the framework of international maritime safety administrations. To study the implementation of standards internationally through mandatory instruments, including SOLAS, the STCW Convention and the STCW Chapter VIII. To provide an understanding of the implementation of maritime standards and decision making related to national and international regulation

MSEM 110 **Impact of Maritime Innovation and technology** **4 EC**
To examine the evolution of innovations and the development of technology in the maritime transport sector from shipbuilding to marine engineering and information and communication technology. To analyse the driving forces behind shipping innovations and the nature, scope and possibilities of technological solutions, particularly in the areas of maritime safety, security and environment protection; To consider how maritime organizations, public or private, can best be organized to provide an environment for continuous innovation.

Field Studies and Seminars

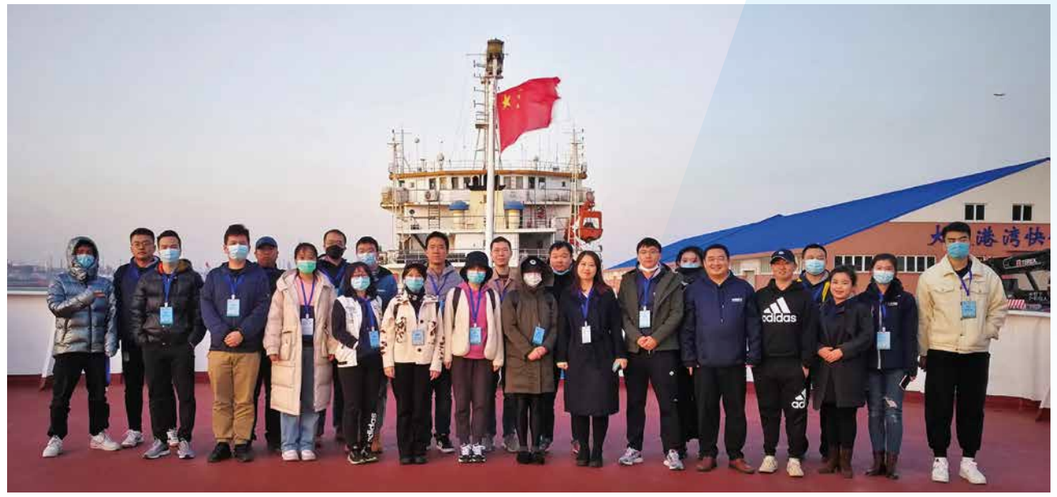
As part of the programme, students are offered the chance to take part in field study visits; destinations include ships, maritime safety surveys and ports. Students also attend a number of seminars.

Fees and Costs

The tuition fee for the next intake to the programme is expected to be RMB 93,900. The fees for the programme are affected by currency fluctuations and may rise each year. In addition, a student needs a minimum of around RMB 60,000 to cover living costs in Dalian for the whole study period (accommodation, food, books and study material and so on).

More Information

For more information about the programme, please see **https://www.wmu.se/programmes/msc-dalian**



POSTGRADUATE DIPLOMA AND DISTANCE LEARNING PROGRAMMES

The World Maritime University has a proven track record in offering programmes by distance learning, designed to offer flexibility to meet the educational needs of maritime professionals, organizations and administrations, and to build maritime capacity globally. Our distance-learning programmes are an indispensable investment for our students and a significant contribution to meeting the need for expertise across the international maritime community.

The distance learning programmes offer a blend of academic theory and business practice, and are delivered by the University directly, or in partnership with leading providers of maritime training and education: Lloyd's Maritime Academy (LMA) and DNV GL Maritime Academy. The knowledge gained can be transferred and immediately applied to the professional environment. The programmes are carefully designed and continuously revised to meet the changing educational needs in the maritime industry. The current programme portfolio includes a wide range of topics of current interest. Each programme carries European credits (under the ECTS) which may be accepted by other universities for transfer into their programmes.

Entrance Requirements

The basic entrance requirement is a Bachelor's degree. Non-graduates with approved professional qualifications or who have sufficient professional experience may also be considered. The normal definition of "sufficient professional experience" for all Postgraduate Diploma programmes is defined as responsible, managerial experience over a period of at least five years' duration. Competence in English is required, as evidenced by a standard, internationally acceptable examination of English.

Fees

Fees for the programmes cover, as appropriate, study materials, core textbooks, recorded lectures, seminars, scheduled examinations, tutorial support and feedback as well as WMU e-library access. The fees do not include the costs of personal travel and accommodation for the seminars, examination or graduation. Participants are responsible for the costs of any special arrangements they may request, such as an alternative examination location.

POSTGRADUATE DIPLOMA PROGRAMMES DELIVERED BY WMU

POSTGRADUATE DIPLOMA IN MARITIME ENERGY

Industry and governments around the world are engaged in the international effort to battle climate change, greenhouse gas (GHG) emissions and air pollutants while doing their best to achieve the targets of the UN Sustainable Development Goals. At the same time, there is a constant pressure towards cost-efficiency and market competitiveness. The Paris Agreement and new IMO regulations on air pollution along with IMO GHG strategy mean that a significant reduction in GHG emissions is necessary over the coming decades. The programme responds to these drivers in a very timely manner and equips maritime professionals with technical and socio-economic-environmental knowledge relating to IMO's regulations on air pollution and potential mitigation measures to achieve a sustainable, zero/low carbon and energy-efficient maritime future. For full details, including content, calendar, fees and payment system, and to apply for admission, please visit **https://www.wmu.se/programmes/maritime-energy**

The programme is endorsed by Wärtsilä and CETENA S.p.A

Programme Information	
Time frame	11 months
Credits	40 EC
Fees	US$ 8,750 (US$ 9,750 when paid in instalments)

WMU alumni are eligible for a 25% discount on this programme

Programme Content

Maritime Energy and Sustainable Development

Introduces the historical environmental discourse around the maritime industry and the development of legal frameworks on maritime energy. It discusses various rationales for maritime energy management as well as the concept of sustainability in shipping. From a goal-based management perspective, a human factors approach is visited to discuss science-oriented solutions. The module examines the role of technology and innovation to facilitate forward-thinking decision-making and socio-cultural transition from mitigation to adaptation for a sustainable maritime transportation system.

Ships and Energy Efficiency

Discusses the basics of Chapter 4 of MARPOL Annex VI including EEDI, SEEMP, DCS along with Market Based Measures and the latest developments on IMO's GHG strategy. It focuses on energy efficient operation of ships as well as energy efficient ship designs. Ship resistance components (viscous, wave-making, air and appendage) are discussed as well as methods for their reduction. Increasing propeller/propulsion efficiency and improvement of propeller-hull interaction are examined from an energy-efficiency perspective. Tutorials are provided to assess the impact of resistance and propulsion improvement methods on fuel consumption reduction.

Future Propulsion Technologies

Presents future alternatives to traditional ship propulsion, including renewable energy (wind- and solar-assisted propulsion and onboard power), alternative fuels (e.g. LNG, LPG, methanol, ethanol, dimethyl ether, biofuels, synthetic fuels and electro-fuels, ammonia and hydrogen) and electric power technologies, such as fuel cells and batteries, as a response to Chapters 3 & 4 of MARPOL Annex VI. Latest trends and challenges in the area of future propulsion technologies are discussed, and an introduction to marine renewable energy sources such as ocean energy including tidal and wave power is provide.

Energy Conservation in Ports and Shipyards

Focuses on knowledge of energy management procedures and technologies in the framework of ports and shipyards. Port governance and its implications for the green development practice of ports. Theoretical and practical knowledge of the energy management framework is presented, including planning, strategy and leadership. Energy management systems are discussed, including certification processes such as ISO 50001, ISO 14001 and other relevant European certification systems. The quality management system (QMS) process, energy audit programmes and socio-economic investment techniques relevant for ports and shipyards are discussed. Circular Economy and industrial symbiosis approach within ports and cities context and latest trends.

Best Practices and Life-Cycle Perspectives

Best practices and case studies from the maritime industry are considered, from ports to shipping companies to engine manufacturers. The trade-off between the socioeconomic benefits and the reduction of air pollution is considered, and multiple criteria decision-making and its application in maritime energy context is discussed. Methodologies to support decision-makers in measuring environmental impact, for example of waste-to-energy processes, and mitigating climate change effects are considered, along with compliance with global regulations (e.g. IMO's Global Sulphur Cap). It provides an insight into the methods of Life-Cycle Assessment (LCA) and Life Cycle Costing Analysis (LCCA), in the context of the maritime field, to evaluate overall environmental and economic impacts. Tutorials are provided in areas such as a simplified methodology for evaluating the life-cycle CO_2 emissions of biofuels or selecting the best alternative amongst the alternatives of compliance.

POSTGRADUATE DIPLOMA IN MARINE INSURANCE LAW & PRACTICE

This long-established programme is supported by IUMI (the International Union of Marine Insurance). The syllabus has been comprehensively revised for participants joining in 2022, and is updated on an annual basis. It offers an outstanding academic foundation for professionals in the marine insurance industry to develop their expertise and their careers, as well as professionals planning to move into the field of marine insurance or the wider maritime sector. Practitioners are empowered to develop their insurance-related expertise and open up new career tracks. Professionals planning to move into the field of marine insurance are offered a thorough understanding of this special sector of the maritime industry, including emerging trends driven by digitalization.

Chartered Insurance Institute
Recognised Prior Learning

This programme is recognised by the Chartered Insurance Institute, and offers exemptions from some CII Diploma and CII Advanced Diploma professional examination.

Programme Information

Time frame	11 months
Credits	40 EC
Fees	US$ 8,750 (US$ 9,750 when paid in instalments)

WMU alumni are eligible for a 25% discount on this programme

Programme Content

The programme consists of five modules each of which is a compulsory element of the programme, and which are assessed by five written assignments (each accounting for eight EC). During the programme you will have additional tutorial support from the programme coordinator and the five module leaders who are experienced marine insurance practitioners.

General Principles of Marine Insurance Law

Offers essential fundamental knowledge of the founding principles of English marine insurance law. Marine insurance involves a specialized application of the law of contracts. However, substantive differences have emerged over time. The module examines the English Marine Insurance Act 1906 (as amended in 2015) as the main source of the applicable legislation. Where English law is applicable, this statute as applied to the contract (policy) between the parties will constitute the norms that govern the legal relationship between the parties. The foundation for marine insurance in other legal orders is also addressed.

Categories of Marine Insurance Cover

Provides an overview of the different categories of marine insurance. Emphasis is on the various standard marine insurance clauses in use in the English insurance market, with reference and comparison made to standard clauses used in other insurance markets. Additional focus is on marine property interests being exposed to risks (especially Hull & Machinery cover), and liabilities incurred by a vessel causing damage to cargo or crew on board the ship or to property outside the vessel. The module highlights the potential overlap of property insurance with third party liabilities, predominantly covered by ship owners' mutual insurance associations.

P&I Clubs and Mutual Insurance

Ship owners and ship managers have remained loyal to the Protection & Indemnity Club system for more than 150 years. Around 90% of the world's ship operators cover their potential liabilities to third parties in one of the Clubs of the International Group of P&I Clubs. P&I and liability insurance have a number of common features with other insurance covers as discussed in the first two modules. However, P&I insurance also has some unique elements, particularly in the way in which the Clubs are set up and operated within the concept of mutuality.

Marine Reinsurance and Modern Maritime Risk Management

Highlights the contractual arrangements for marine insurers to transfer accepted insurance risks to other insurance companies. First, it concentrates on the role of reinsurance – i.e. primary insurers entering into insurance agreements themselves to cover the risks of the underlying insurance. Second, it covers the wider aspects of maritime risk management, including the rising importance of digitalization, which materializes, for example, as maritime cyber risk, and ever-increasing automation processes in shipping.

Settlement of Claims and Understanding Related Maritime Liabilities

Building on the level of knowledge established by the first four modules, the final module focuses on practical and litigation issues related to maritime claims handling. It addresses, in particular, liability incidents that may result in claims procedures. To a large degree, the related claims procedures and rules have been developed by marine underwriters and P&I Clubs. But they are also influenced by legal and technical possibilities as well as related legal limitations. To deal with incidents that may result in claims procedures, the module focuses on the value and importance of close communication and information exchange between the assured and marine insurers.

PROGRAMMES DELIVERED IN ASSOCIATION WITH LLOYD'S MARITIME ACADEMY

LLOYD'S MARITIME ACADEMY

LLOYD'S MARITIME ACADEMY IS PART OF KNECT365, A DIVISION OF INFORMA PLC, ONE OF THE WORLD'S LEADING BUSINESS INTELLIGENCE, ACADEMIC PUBLISHING, KNOWLEDGE AND EVENTS BUSINESSES.

For more information and to apply on-line, please see: **www.lloydsmaritimeacademy.com**.

LLM IN INTERNATIONAL MARITIME LAW

This LLM provides an advanced understanding of a specialist area of maritime law and enables practitioners in both the legal field and maritime industry to enhance their career prospects. It improves students' research and independent study skills as well as the ability to develop substantiated critical argument. It is open to students who have completed successfully the Postgraduate Diploma in International Maritime Law and who hold an LLB (or equivalent) degree.

Programme Information	
Time frame	11 months
Credits	30 EC, plus 60 EC from the Postgraduate Diploma programme
Fees	£5,620 / USD $7,025 (in 2021)

Programme Content

The programme consists of two parts, and students are supported by an e-learning platform, where the programme coordinator will provide tutorial support and generate forum discussion. They are also invited to attend a one-day seminar in London. Research in law requires an understanding of the interrelationship between theory, method and research design, practical skills and particular methods, the knowledge base of the subject and methodological foundations. The first module prepares students for the Dissertation component, the topic of which focuses on an area of interest to individual students. Students will receive full guidance and support from the academic programme coordinator and the appointed supervisor throughout the dissertation writing process.

Part I: Researching International Maritime Law

Made up of a Literature Review, comprised of 2,500 words, which counts for 40% of the module marks, and a Research Proposal comprising of 1,500 words, which counts for 60% of the module marks.

Part II: A research-based Dissertation

Independent study, supported by access to two comprehensive handbooks giving extensive guidance, and the supervision of the academic coordinator and the appointed supervisor.

POSTGRADUATE DIPLOMA IN INTERNATIONAL MARITIME LAW

The programme has been designed to develop knowledge of international trade and maritime law. Students will increase their understanding of how commercial trade ventures may give rise to legal issues. With English law recognised internationally as the dominant legal system providing the basis for maritime and trade contracts, and with London as the single most important forum for settling disputes both through court litigation and arbitration, this programme studies law in relation to how it is applied in practice. This distance learning programme brings together the intellectual rigour of academia and the experience of leading legal practitioners, delivering the best Maritime Law Postgraduate Diploma available.

Programme Information	
Time frame	16 months
Credits	60 EC
Fees	£6,700 / USD $8,375 (in 2021)

Progression and Awards

Students who pass all assessments at the required standard may be awarded a Postgraduate Diploma in International Maritime Law. Alternatively, a student who holds a bachelor's degree in law may continue to follow the programme leading to the degree of LLM in International Maritime Law.

Programme Content

The programme consists of an Introductory Module, eight Core Modules and a choice from four Specialist Modules. It is assessed by five written assignments and a final written examination consisting of two distinct papers. During the programme you will be invited to attend three optional seminars in London that provide additional support offered by the Module authors and the programme coordinator.

Introductory Module:

- An introduction to the English legal system

Core Modules:

- International Trade Law
- Bills of Lading Contracts
- Charterparties
- Marine Insurance Law
- Admiralty Law & General Average
- Payment & Finance for International Trade
- Litigation, Arbitration, Mediation
- Conflicts of Laws and Forum Shopping

Specialist Modules:

- Ship Finance Law
- Oil and Chemical Pollution
- European Union Competition Law in Shipping
- The Four Pillars of Maritime Regulation

PROGRAMME DELIVERED IN ASSOCIATION WITH DNV

DNV IS THE WORLD'S LARGEST SHIP AND OFFSHORE CLASSIFICATION SOCIETY. DNV'S MARITIME ACADEMY PROVIDES AN EXTENSIVE PORTFOLIO OF TRAINING COURSES FOR THE MARITIME INDUSTRY. WITH THEIR GLOBAL NETWORK THEY ARE ABLE TO EXPLOIT BEST PRACTICES AND OFFER COMPREHENSIVE TRAINING PROGRAMMES.

POSTGRADUATE DIPLOMA IN EXECUTIVE MARITIME MANAGEMENT

Managers in today's extremely competitive maritime industry need to cope with continuous technical, regulatory and commercial development. They must be able to anticipate future opportunities and act proactively, armed with up-to-date skills and comprehensive knowledge if they want to retain their competitive edge. This programme, first offered in 2015, has been designed to provide a "boot camp" for managers. It is continuously updated to address issues of critical importance in the maritime industry across its operational, technical and commercial aspects. A major revision and update of the programme were made in 2021.

It consists of five modules, each of which is a compulsory element of the programme. Approximately every eight weeks a module will be completed with a final assessment and a new module will start. The programmes offer pre-recorded videos on an e-learning platform, self-assessment exercises, collaboration tools, discussion forums and WMU e-library access.

Programme Information	
Time frame	11 months
Credits	40 EC
Fees	EUR 7,590 (in 2020)

Fundamental Maritime Economics and Contemporary Maritime Law

In this module, you will discuss the principles and trends in maritime markets and gain an understanding of maritime corporate and economic driving forces. You will also have the presentations on maritime conventions and the new regulatory development in the shipping sector.

Shipping Market and Financial Management

This module presents an overview of the shipping markets and their unique characteristics, examines the challenges and issues in the current maritime sector. Advanced knowledge of shipping financial management and the impact of economic variables on shipping business organizations' financial operations are analysed.

Management, Organizational Behaviour and Leadership

In this module you will gain a fundamental understanding of the nature of organizations and the processes inherent in them as they relate to individuals and groups. The module will also increase learners' appreciation of the significance of management and leadership in organizations when organizational effectiveness, sustainability and productivity are in view.

Safe Shipping – Safety and Technology

This module explores two fundamental aspects of the modern maritime domain: safety in shipping and the digital transformation. You will learn about various safety and security challenges, how to identify them and how to manage risk.

Sustainable Shipping – Environment and Technology

This module focuses on environmental aspects of the shipping industry – from carbon footprint to ballast water management, from antifouling to oil spills, along with relevant technologies and challenges faced in the aim of achieving sustainable maritime development.

FACULTY MEMBERS 2021/22 ACADEMIC YEAR

President

C. Doumbia-Henry LLB, LLM (University of the West Indies), LLM, PhD (University of Geneva), Barrister-at-Law

Vice-President (Academic Affairs)

J-U. Schröder-Hinrichs Dipl-Ing für Verkehrsingenieurwesen (Rostock), Dr-Ing (Wuppertal), Master Mariner

Vice-President (International)

S. Ma BSc (Shanghai Maritime University), MSc (Paris I), PhD (Paris II), Chevalier du Mérite Maritime (France)

Director of the Global Ocean Institute

R. Long BCL (National University of Ireland), PhD (Trinity Dublin)

Professors

R. Baumler MSc (Artois), PhD (Evry), Master Mariner

L. Carballo Piñeiro PhD (Santiago de Compostela), PhD (Vigo), Attorney-at-Law Nippon Foundation Chair in Maritime Labour Law and Policy

J. Hollander PhD (Gothenburg) Nippon Foundation Chair in Sustainable Marine Management & Ocean Governance

M. E. Manuel MSc, PhD (WMU), Master Mariner Nippon Foundation Chair in Maritime Education and Training

M. Mejia BSc (US Naval Academy), MALD (Fletcher), MSc (WMU), Tekn Lic, PhD (Lund), Distinguished Service Medal (Philippines) Director of the PhD Programme

S-H Moon BEng, MSc (Korea Maritime University), PhD (Cardiff), Master Mariner. On leave of absence as Minister of Oceans & Fisheries, Republic of Korea

T. Nakazawa BSc (KUMM), PhD (Kobe), Chartered Engineer (UK)

F. C. Neat BSc (Edinburgh), PhD (Glasgow) Nippon Foundation Chair in Sustainable Fisheries Management, Ocean Biodiversity and Marine Spatial Planning

A. I. Ölçer BSc, MSc, PhD (Istanbul Technical University) Nippon Foundation Chair in Marine Technology and Innovation, Director of Maritime Research

C. Schofield BA (Durham), LLM (British Columbia), PhD (Durham), Head of Research, Global Ocean Institute

D-W Song BA (Hons) (Korea Maritime University), MSc, PhD (Plymouth), CMILT Republic of Korea Chair

G. Theocharidis LLB (Aristotle University), LLM (Cantab.), Dr.iur. (Aristotle University), Advocate, Member of the Piraeus Bar, L.M.A.A. (SuppMemb)

M. Wisz BSci (Illinois), MA (Colorado), PhD (Cambridge)

Associate Professors

G. Chen BSc (Dalian Maritime University), MSc, PhD (University of Southern Denmark)

D. Dalaklis BSc (Hellenic Naval Academy), MSc (US Naval Postgraduate School), PhD (Aegean), AFNI, Distinguished Service Medal (Greece)

A. Fakhry LLB, LLM (Montreal), MMM (Dalhousie), PhD (Southampton), Advocate, Member of the Quebec Bar

H. Jessen First German State Examination in Law (Christian-Albrechts-University Kiel), LLM (Tulane), Dr. jur (Martin-Luther-University Halle-Wittenberg), Second German State Examination in Law

M. Kitada BSc (Kobe), Dip (Cardiff), PhD (Cardiff)

M. C. Romero Lares LLB (Andrés Bello), LLM (Tulane), PhD (Leibniz University Hannover)

Assistant Professors

F. Ballini BSc, MSc, PhD (Genova)

I. Bartuseviene BSc (Kaliningrad State Technical University), MSc (Vilnius), MSc (WMU), PhD (Klaipeda)

J. Bolmsten MSc (Blekinge Institute of Technology), MSc (Copenhagen), PhD (IT University of Copenhagen)) and Information Manager

A. Hebbar BSc (Bombay University), MSc (WMU), PhD (Tata Institute of Social Sciences), Tatrakshak Medal for Meritorious Service (India)

S. R. Sahoo BEng (Jadavpur University), MSc (WMU), PhD (Reading)

A. Schönborn MEng, PhD (University College, London)

Lecturers

A. Pazaver MA, CTESL (Carleton)

R. W. Sheehan BSc (USCG Academy), MPH (American Military University) (Seconded from the United States Coast Guard)

Adjunct Professors

S. J. Cross MSc (Amsterdam Nautical Academy), PhD (Erasmus/Southampton Solent), Master Mariner

C. R. Cushing BSc (USMMA/MIT), MS (New York), PhD (Wales), Member of the National Academy of Engineering, US

G. M. Gauci LLD (Malta), LLM (Southampton), PhD (Wales)

L. P. Hildebrand BSc (Hons), MES (Dalhousie), PhD (Cardiff)

External Examiners

R. Bergqvist MSc, PhD (Gothenburg)

M. McConnell BA (Victoria, Canada), LLB (Dalhousie), PhD (Sydney)

As at 31 July 2021

MSc PROGRAMME: APPLICATION AND PAYMENT

Submitting your Application

Make your application online at our website. Attach your supporting certificates as electronic documents

If you are applying for donor funding:

- submit your application as early as possible - by the end of December for students who wish to join the ESSP, and by the end of March for those who wish to join the standard or the accelerated programme
- ensure that the application for donor funding from your employer and motivational statements are submitted

There are no cut-off dates for submitting your application

Paper applications are not accepted.

Fees and Financing

When your completed application has been considered by our Admissions Board, we will let you know whether or not you have academic clearance. Advice of academic clearance indicates only that a candidate has been selected by the Admissions Board on academic grounds. It does not indicate that a candidate can enrol; this can only be confirmed when the necessary finance has been secured.

The costs of studying at WMU are summarised earlier in this Handbook, and fuller details of financial arrangements can be found in the Fees & Facilities leaflet, which will be available from spring 2022.

Major international donors usually provide full fellowships, although there is a small number of tuition-fee only fellowships. Applicants' employers must apply for this donor funding. Several donors require that the candidate should complete a motivational statement in order to be considered. The blank forms for employers and candidates to complete can be found on our website.

Payments to the University

Payments to the University should be sent to:

Account Name:	**The World Maritime University**
Account Number:	**3968-77-02567**
IBAN Number:	**SE66 3000 0000 0396 8770 2567**
BIC Code:	**NDEASESS**
Bank Name:	**Nordea**
Bank Address:	**PO Box 24, SE-201 24 Malmö, Sweden**

Details of the transfer of funds should be sent to the Registry by email (MSc@wmu.se).

Payment for the 14-month programme can be made in two equal instalments. The first payment must be made by the following dates:

- Students attending the English & Study Skills Programme in June: 1 April 2022
- Students joining the standard 14-month Programme in September: 1 July 2022

The second payment must be made by 1 April 2023 at the latest.

Students joining the accelerated programme must make their payment by 1 November before the January in which they enrol.

2022/23 KEY DATES FOR STUDENTS JOINING THE MSc IN MARITIME AFFAIRS

2022	
20 June – 9 September	**English & Study Skills Programme:** 12 weeks
12 – 16 September	Non-teaching period for ESSP students: 1 week
12 September	**Orientation programme for non-ESSP students starts:** 1 week
19 September	**Inauguration of the Class of 2023**
19 September – 16 December	**First term:** 13 weeks
30 October	**Graduation Ceremony for the Class of 2022**
19 December – 6 January	Non-teaching period: 3 weeks

2023	
9 January – 23 June	**Second term:** 24 weeks
9 January	Students with advanced standing join the class of 2023
8 – 19 May	Non-teaching period: 2 weeks
26 June – 30 June	Non-teaching period: 1 week
3 July – 27 October	**Third term:** 17 weeks
28 October	**Graduation Ceremony for the Class of 2023**

WORLD MARITIME UNIVERSITY

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The World Maritime University was established in 1983 under the auspices of the International Maritime Organization, a specialized agency of the United Nations.

INTERNATIONAL MARITIME ORGANIZATION